

Swope, Sheridan

From: Schreiber, David
Sent: Wednesday, March 10, 2004 3:06 PM
To: Swope, Sheridan
Cc: O'Bryen, Barbara
Subject: Proposal 09/966,880

The full run that you would requested would take 65 hours of run time. As I mentioned, we are proposing to run seq 9, std & oligo, interference databases and seq 10 and 11, std & oligo, in all databases including interference. The run time for our proposed search is about 31 hours. We have at least 80 hours in each queue including the dedicated rush queue.

David Schreiber, Ph.D.
Scientific and Technical Information Center
Biotech/Chem Library
Old address and phone:
CM1-6A03
703-308-4292
New address and phone:
Remsen E01A61
571-272-2526

Swope, Sheridan

From: Swope, Sheridan
Sent: Wednesday, March 10, 2004 8:10 PM
To: Schreiber, David
Subject: RE: Proposal 09/966,880

David, Thanks for contacting me on this.
Let's do the following.

A.
Interference search sid 9; full-length and oligo.
Search and Interference Search sid 10; full-length and oligo.

An oligo search on SID 7 would encompass an oligo search of SID 11-15.

B.
After I analyze the results:
If there are any oligo hits for Sid 9, align the hits with sid 11.
If there are any oligo hits for Sid 10, align the hits with sid 12-15.

Let me know how long you think A will take.

Thanks!

Note: SID 9 comprises sid 11
SID 10 comprises sid 12-15.

-----Original Message-----

From: Schreiber, David
Sent: Wednesday, March 10, 2004 3:06 PM
To: Swope, Sheridan
Cc: O'Bryen, Barbara
Subject: Proposal 09/966,880

The full run that you would requested would take 65 hours of run time. As I mentioned, we are proposing to run seq 9, std & oligo, interference databases and seq 10 and 11, std & oligo, in all databases including interference. The run time for our proposed search is about 31 hours. We have at least 80 hours in each queue including the dedicated rush queue.

David Schreiber, Ph.D.
Scientific and Technical Information Center
Biotech/Chem Library
Old address and phone:
CM1-6A03
703-308-4292
New address and phone:
Remsen E01A61
571-272-2526

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 10, 2004, 13:38:36 ; Search time 47.087 Seconds
(without alignments)
NUMBER OF SEQ ID NOS: 36
3.483 Million cell updates/sec

Title: US-09-966-880A-9
Perfect score: 5514
Sequence: 1 acagacgatatacatggcca.....tcaaactctgacctcaag 5514

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 0.5

Searched: 7 seqs, 14872 residues

Total number of hits satisfying chosen parameters: 14

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : US09966880A.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match length	DB ID	Description	
1	5512.8	100.0	5514	1 US-09-966-880A-9	
2	178.6	3.2	2172	1 US-09-966-880A-15	
3	178.6	3.2	6564	1 US-09-966-880A-10	
4	174.2	3.2	2172	1 US-09-966-880A-15	
5	174.2	3.2	6564	1 US-09-966-880A-10	
c	6	2.0	5514	1 US-09-966-880A-9	
c	7	1.6	87	1 US-09-966-880A-11	
c	8	18.3	148	1 US-09-966-880A-12	
c	9	17.6	0.3	271	1 US-09-966-880A-13
c	10	16.2	0.3	116	1 US-09-966-880A-14
c	11	16	0.3	271	1 US-09-966-880A-13
c	12	15.4	0.3	148	1 US-09-966-880A-12
c	13	14.8	0.3	116	1 US-09-966-880A-14
c	14	14.4	0.3	87	1 US-09-966-880A-11

ALIGNMENTS

```

RESULT 1
US-09-966-880A-9
; Sequence 9, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Horio, Tatsaku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTRIDINE DEAMINASE
; FILE REFERENCE: 0501-058001
; CURRENT APPLICATION NUMBER: US/09-966, 880A
; CURRENT FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27

```

```

; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 9
; LENGTH: 5514
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: intron
; LOCATION: (1)...(1031)
; FEATURE:
; NAME/KEY: exon
; LOCATION: (1032)...(1118)
; FEATURE:
; NAME/KEY: inton
; LOCATION: (1119)...(5514)

Query Match: US-09-966-880A-9
Best local Similarity: 100.0%; Pred. No. 1.3e-83;
Matches 5514; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Db 61 GTATCAAAGCTTGAGGAGAGACAGCTTGTGAGTCAGTGCAGATGCA 120
Db 1 ACAGACGATACTGGTCAASCTGCTATGATTGAAATCATCAGGTATAGTG 60
Db 1 ACAGACGATACTGGTCAASCTGCTATGATTGAAATCATCAGGTATAGTG 60
Db 121 TCCCTPAGACCTGGCATAGTTCCATTACAGGGCTGAGATCTACTCGAGTA 180
Db 61 GTATCAAAGCTTGAGGAGAGACAGCTTGTGAGTCAGTGCAGATGCA 120
Db 181 AATAGAAAGCATATGGGTACAGTAGGGAGAGAAATTAACTTTATAGCCAGTC 240
Db 181 AATAGAAAGCATATGGGTACAGTAGGGAGAGAAATTAACTTTATAGCCAGTC 240
Db 241 TATGAGGACAAATTAAAGTCCTTTATGAGACTTGTCTGTTCCAATTTCAG 300
Db 241 TATGAGGACAAATTAAAGTCCTTTATGAGACTTGTCTGTTCCAATTTCAG 300
Db 301 TGCGGCCAGTTAGACACTATCCTGCTGGTGAACAGCATTTGGGGAC 360
Db 301 TGCGGCCAGTTAGACACTATCCTGCTGGTGAACAGCATTTGGGGAC 360
Db 361 TGCCTGCTCTCTGACTCCAATTAGATTTTTTCTAAAAAAGGGCTATG 420
Db 361 TGCCTGCTCTCTGACTCCAATTAGATTTTTTCTAAAAAAGGGCTATG 420
Db 421 CAAATCACTCTTGGTTAAATCTAGTCAGCAATCTGATGATGAG 480
Db 421 CAAATCACTCTTGGTTAAATCTAGTCAGCAATCTGATGATGAG 480
Db 481 AAGAAAAATCCATGGTTGGAGGCAAAUTTGTGTTAACTCTATACTGA 540
Db 481 AAGAAAAATCCATGGTTGGAGGCAAAUTTGTGTTAACTCTATACTGA 540
QY 541 GTTCATTGCTTAACTGCGAAGCGAGCTGCTAGTCGCTGCTGTGACTGGTCAAG 600
Db 541 GTTCATTGCTTAACTGCGAAGCGAGCTGCTAGTCGCTGCTGTGACTGGTCAAG 600
Db 601 AGACTGTGGAAATGGGAAATTAGAGGCTATCTGAGGCTCTCAACAAATACCAA 660
Db 601 AGACTGTGGAAATGGGAAATTAGAGGCTATCTGAGGCTCTCAACAAATACCAA 660
QY 61 GAAGCTTAAATGCTTAAAGTATACATAAAATTACTATCTCATGTGCTT 720
Db 61 GAAGCTTAAATGCTTAAAGTATACATAAAATTACTATCTCATGTGCTT 720

```

QY	721	TATTTGGTATCATGATTAAATCGAGCTACTGTACTGCCTCTGATCCTTG	780	Db	1801	GTGGAATTGGTAAAGGCCATAGTCCTTATGCACTTTAGTT	1860
Db	721	TATTTGGTATCATGATTAAATCGAGCTACTGTACTGCCTCTGATCCTTG	780	QY	1861	CATGAAATTATCTATCTACATTATGATTACTATGGTGTATGAGATAACCTA	1920
QY	781	TAGCTATGGGATGAGCTGGCTTTAGA3AGAGCCCAAAGAACCTAA	840	Db	1861	CATGAAATTATCTATCTACATTATGATTACTATGGTGTATGAGATAACCTA	1920
Db	781	TAGCTATGGGATGAGCTGGCTTTAGA3AGAGCCCAAAGAACCTAA	840	QY	1921	ATCCTATACTTACCTAACTCTTAACTCTTAAAGAACCTACATCGAATAGA	1980
QY	841	ACGAGAGTCCTCAATGGTTAACCTGTGACTCTGCTTATGACAGCCCAC	900	Db	1921	ATCCTATACTTACCTAACTCTTAAAGAACCTACATCGAATAGA	1980
Db	841	ACGAGAGTCCTCAATGGTTAACCTGTGACTCTGCTTATGACAGCCCAC	900	QY	1981	TTTTAAATAATATTTTGAGAACAGGGCTTAGCCAGCGAGCTG3CT	2040
QY	901	CATOTTCAGTGGTCAAAATCAGGAGCAAGGCGCTTGTGGGTGATG	960	Db	1981	TTTTAAATAATATTTTGAGAACAGGGCTTAGCCAGCGAGCTG3CT	2040
Db	901	CATOTTCAGTGGTCAAAATCAGGAGCAAGGCGCTTGTGGGTGATG	960	QY	2041	AAGCTT3GCCAAGGATCTCTCTCTGGGCTCTAAGCTGCGAATATGAC	2100
QY	961	GTGAGGGGAGGAGCCAAAGGCAACTCTGATGAGATTTCGCTGAGACTG	1020	Db	2041	AAGCTT3GCCAAGGATCTCTCTCTGGGCTCTAAGCTGCGAATATGAC	2100
Db	961	GTGAGGGGAGGAGCCAAAGGCAACTCTGATGAGATTTCGCTGAGACTG	1020	QY	2101	GAGCCATCAGTCAATACAGAATANAGATTATGGAGGATTAACTGCTCAG	2160
QY	1021	CAGACTGAGACAGAACCATCAATTAAATGAGTGAGATTTCGCTGAGCTG	1080	Db	2101	GAGCCATCAGTCAATACAGAATANAGATTATGGAGGATTAACTGCTCAG	2160
Db	1021	CAGACTGAGACAGAACCATCAATTAAATGAGTGAGATTTCGCTGAGCTG	1080	QY	2161	AAATTCTGAGTCAGAACATGCAATGCTCCCTCACTGAGATTGAA	2220
QY	1081	GGGAGGCGAGAGAACACTCTGGCACCACTATGAGCGCTTCTCGTG	1140	Db	2161	AAATTCTGAGTCAGAACATGCAATGCTCCCTCACTGAGATTGAA	2220
Db	1081	GGGAGGCGAGAGAACACTCTGGCACCACTATGAGCGCTTCTCGTG	1140	QY	2221	AACAGCTGAGCTAGAACATGCTCTGTGAGGGCATTTGAATACCTGTCAG	2280
QY	1141	GGTCAATTGCACTGGCTCTCTCAGAGCAACCTATGAGCTGAGCTG	1200	Db	2221	AACAGCTGAGCTAGAACATGCTCTGTGAGGGCATTTGAATACCTGTCAG	2280
Db	1141	GGTCAATTGCACTGGCTCTCTCAGAGCAACCTATGAGCTGAGCTG	1200	QY	2281	ATGAAAGCAAACTAAATCAGAATAGCTGAACTTCAAGGAAGAAGAAAG	2340
QY	1201	TTTCTCTAIGTAATGCTGATGATGAGATGCTGATCAATGCAATATTT	1260	Db	2281	ATGAAAGCAAACTAAATCAGAATAGCTGAACTTCAAGGAAGAAGAAAG	2340
Db	1201	TTTCTCTAIGTAATGCTGATGATGAGATGCTGATCAATGCAATATTT	1260	QY	2341	ATGAAATCACAGGAGGAACTTATATCATTAAGGAGGAACTATGTA	2400
QY	1261	TTGATCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	1320	Db	2341	ATGAAATCACAGGAGGAACTTATATCATTAAGGAGGAACTATGTA	2400
Db	1261	TTGATCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	1320	QY	2401	GCTCATTTAGTGTGATGCCAAATGACTCTGTCAGGATATTAAACCGCTGTTG	2460
QY	1321	TTGAGACTCTCTGATTCCCTTTTCACTGGCAAAAGAGAGTGTGCTACATG	1380	Db	2401	GCTCATTTAGTGTGATGCCAAATGACTCTGTCAGGATATTAAACCGCTGTTG	2460
Db	1321	TTGAGACTCTCTGATTCCCTTTTCACTGGCAAAAGAGAGTGTGCTACATG	1380	QY	2461	TGCAAGCTGGGATGAGCTGAGCTGGTGTGCTCAGGAGCAGCTGTCAGAG	2520
QY	1381	ACTGATTCGCTCTGAGATTTGACATGTTGAACTTATGAAATATTAACA	1440	Db	2461	TGCAAGCTGGGATGAGCTGAGCTGGTGTGCTCAGGAGCAGCTGTCAGAG	2520
Db	1381	ACTGATTCGCTCTGAGATTTGACATGTTGAACTTATGAAATATTAACA	1440	QY	2521	TGCAAGCTGGGATGAGCTGAGCTGGTGTGCTCAGGAGCAGCTGTCAGAG	2580
QY	1441	TAGCAATCTTCTGAGACTCAAATCATGAAAGGTAATAGCAAGGAGG	1500	Db	2521	TGCAAGCTGGGATGAGCTGAGCTGGTGTGCTCAGGAGCAGCTGTCAGAG	2580
Db	1441	TAGCAATCTTCTGAGACTCAAATCATGAAAGGTAATAGCAAGGAGG	1500	QY	2581	GACGAGACAGGGAGCTGGAAACAGGCCCTAACAGAGAGGAGTGTGCA	2640
QY	1501	TAGCTTAATTCTGAAATTGTAATTGTAATTGAACTTGAGACAGACACA	1560	Db	2581	GACGAGACAGGGAGCTGGAAACAGGCCCTAACAGAGAGGAGTGTGCA	2640
Db	1501	TAGCTTAATTCTGAAATTGTAATTGTAATTGAACTTGAGACAGACACA	1560	QY	2641	AAGTAACTGAGCTGAGCTGGTGTGCTGAGCTGAGCTGAGCTGAGCTGAG	2700
QY	1561	CTTCTCTAGGGAGCGTTACTGAAATAATTAGCTATGAGAAATTGAAATTG	1620	Db	2641	AAGTAACTGAGCTGAGCTGGTGTGCTGAGCTGAGCTGAGCTGAGCTGAG	2700
Db	1561	CTTCTCTAGGGAGGGTTACTGAAATAATTAGCTATGAGAAATTGAAATTG	1620	QY	2701	GAACAGGTGAGCTTATGCTGAGTAGGAGCCAAATCCACCAAGT	2760
QY	1621	AAATGCCAACGATCTCTAAATTGCTGAGCTGAGCTGAGCTGAGCTGAG	1680	Db	2701	GAACAGGTGAGCTTATGCTGAGTAGGAGCCAAATCCACCAAGT	2760
Db	1621	AAATGCCAACGATCTCTAAATTGCTGAGCTGAGCTGAGCTGAGCTGAG	1680	QY	2761	CCTTATCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	2820
QY	1681	AGACAAATCTGAGCAAGTGTGTTAGGAGCTGAGCTGAGCTGAGCTGAG	1740	Db	2761	CCTTATCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	2820
Db	1681	AGACAAATCTGAGCAAGTGTGTTAGGAGCTGAGCTGAGCTGAGCTGAG	1740	QY	2821	TAAGCTTCT	2880
QY	1741	GCACCTTACTAATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	1800	Db	2821	TAAGCTTCT	2880
Db	1741	GCACCTTACTAATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	1800	QY	2881	CACAAACACACCCGCCAACAAAGGTGAGTAAAGATGAGTCTCTGCTT	2940
QY	1801	GTGGAATTGGTAAAGGCCATAGTCCTTATGCACTTTAGTT	1860				

Db	2881	CACAHACACACACCCGCCAACCAAGTGCATGTAAGATGAGATTCCTCAGCCTT	2940	Qy	4021	AGTACTTTACACAACCCAAAGTAGAGACTATCCAAATTCATCACAGTGA	4080
Qy	2941	CTCACATCACAGCCAGGGGTAGTTAATATAGAGGATTATGGTAGAGATA	3000	Db	4021	AGTACTTTACACAACCCAAAGTAGAGACTATCCAAATTCATCACAGTGA	4080
Db	3001	TGCTTAATCTGTTAACCTGGCTCAAAGAGAGATTCTTCTCTGACTTATA	3060	Qy	4081	CAATAACAAATGCTTATCCATGCAATGGAACTCCACCTGCAAAAGAG	4140
Db	3001	TGCTTAATCTGTTAACCTGGCTCAAAGAGAGATTCTTCTCTGACTTATA	3060	Db	4081	CAATAACAAATGCTTATCCATGCAATGGAACTCCACCTGCAAAAGAG	4140
Qy	3061	AGCACCTPATTGTTGAGCTTATACCAAGGGTTATATAGAGGATTATGGAGAGA	3120	Qy	4141	AAGCTACTTGGGATGATCCAAAGTGCTAATGAGCTAACAGAGATGAA	4200
Db	3061	AGCACCPATTAGTGTGAGGTTATATACCAAGGGTTATATAGCTAAAT	3120	Db	4141	AAGCTACTTGGGATGATCCAAAGTGCTAATGAGCTAACAGAGATGAA	4200
Qy	3121	AGTAATGTTGTTGAGCTATGGTTAACCTAAATATWATCTTTAAATAG	3180	Qy	4201	ASGAGATATGATGCAATGAAATTCTAGAAATGAAAGTAACTTATGAA	4260
Db	3121	AGTAATGTTGTTGAGCTATGGTTAACCTAAATTAATWATCTTTAAATAG	3180	Db	4201	AGGAGATATGATGCAATGAAATTCTAGAAATGAAAGTAACTTATGAA	4260
Qy	3181	CTAATTTATGTTGATCTTTAGTATCATTATGTTTATGTTTGTGTT	3300	Qy	4261	GCAATCGGGAGGATAGGGCTCAGCTGAACTTGGCTAACATGCTTCG	4320
Db	3181	CTAATTTATGTTGATCTTTAGTATCATTATGTTTATGTTTGTGTT	3300	Db	4261	GCAATCGGGAGGATAGGGCTCAGCTGAACTTGGCTAACATGCTTCG	4320
Qy	3241	AAAGCAATTCACCTGTTACCCAGGTGAGCTCAGTGTGCAATCATACCTCG	33240	Qy	4331	GEGRAGATGCTAGACTCAGGGTCAAGACAGGCTGCAACAGAGA	4380
Db	3241	AAAGCAATTCACCTGTTACCCAGGTGAGCTCAGTGTGCAATCATACCTCG	33240	Db	4331	GEGRAGATGCTAGACTCAGGGTCAAGACAGGCTGCAACAGAGA	4380
Qy	3301	CAGCTGAACTCTGGCTAACGAACTCTCTGCTCCCTGCCCTCCAAAGTGTGGAT	3360	Qy	4381	TCTCCACAAATGGGAAAAGAGAGAAATCAGTGTGTCMGTGGAGGGAG	4440
Db	3301	CAGCTGAACTCTGGCTAACGAACTCTCTGCTCCCTGCCCTCCAAAGTGTGGAT	3360	Db	4381	TCTCCACAAATGGGAAAAGAGAGAAATCAGTGTGTCMGTGGAGGGAG	4440
Qy	3361	ACAGTCATGACCACTGTCACCTGATCTGGCTTACCCAGGTGAGCTCAGCTG	3420	Qy	4381	TCTCCACAAATGGGAAAAGAGAGAAATCAGTGTGTCMGTGGAGGGAG	4440
Db	3361	ACAGTCATGACCACTGTCACCTGATCTGGCTTACCCAGGTGAGCTCAGCTG	3420	Db	4381	TCTCCACAAATGGGAAAAGAGAGAAATCAGTGTGTCMGTGGAGGGAG	4440
Qy	3421	TTTAAATAATATGGCTAATTTACCTTACGTTGTTGTTGCTATCTGTTAAATCTG	3480	Qy	4441	GACTGAAAGAGGAGCTGGGGGAGGGGGTGTGAGGCTGCTG	4500
Db	3421	TTTAAATAATATGGCTAATTTACCTTACGTTGTTGCTATCTGTTAAATCTG	3480	Db	4441	GACTGAAAGAGGAGCTGGGGGAGGGGGTGTGAGGCTGCTG	4500
Qy	3481	TTCGTCCTAAAGTTAACGCTTCAAACTTCAACGTTCAAGCTGAGGAGACAT	3540	Qy	4441	GACTGAAAGAGGAGCTGGGGGAGGGGGTGTGAGGCTGCTG	4500
Db	3481	TTCGTCCTAAAGTTAACGCTTCAAACTTCAACGTTCAAGCTGAGGAGACAT	3540	Db	4441	GACTGAAAGAGGAGCTGGGGGAGGGGGTGTGAGGCTGCTG	4500
Qy	3541	TAAGCTAACAGAACGAGCCAGCTGGCTAACGCTGCTAACCCACATCTGGAG	3600	Qy	4441	GACTGAAAGAGGAGCTGGGGGAGGGGGTGTGAGGCTGCTG	4500
Db	3541	TAAGCTAACAGAACGAGCCAGCTGGCTAACGCTGCTAACCCACATCTGGAG	3600	Db	4441	GACTGAAAGAGGAGCTGGGGGAGGGGGTGTGAGGCTGCTG	4500
Qy	3601	GTCGAGCTGGGATGCTGGCTGGCTAACGAGCTGGCTAACCCACATCTGGAG	3660	Qy	4501	GACTGTTGAGTTCTGTTACCCCTAACATTCAGTGTGAAATATGCTTA	4560
Db	3601	GTCGAGCTGGGATGCTGGCTGGCTAACGAGCTGGCTAACCCACATCTGGAG	3660	Db	4501	GACTGTTGAGTTCTGTTACCCCTAACATTCAGTGTGAAATATGCTTA	4560
Qy	3661	AACCGTTCTTATACAAATAGCCGGCATGGTGTGCAATGGCTTACCTGCACT	3720	Qy	4501	GACTGTTGAGTTCTGTTACCCCTAACATTCAGTGTGAAATATGCTTA	4560
Db	3661	AACCGTTCTTATACAAATAGCCGGCATGGTGTGCAATGGCTTACCTGCACT	3720	Db	4501	GACTGTTGAGTTCTGTTACCCCTAACATTCAGTGTGAAATATGCTTA	4560
Qy	3721	ACTAGGGGCTTACGGGAGATCTTGGGCCAGGGCTGGCTAACCTGGAG	3780	Qy	4561	AATGGGGAGGTTACTCTGTTACCCCTAACATTCAGTGTGAAATATGCTTA	4620
Db	3721	ACTAGGGGCTTACGGGAGATCTTGGGCCAGGGCTGGCTAACCTGGAG	3780	Db	4561	AATGGGGAGGTTACTCTGTTACCCCTAACATTCAGTGTGAAATATGCTTA	4620
Qy	3781	TGCTTGCCACTGCACTCCGCCTGGCTAACCTGGAG	3840	Qy	4621	AAAGTTCACTCTGTCAGCAAGCTGTTACCCCTAACATTCAGTGTGAAATATGCTTA	4680
Db	3781	TGCTTGCCACTGCACTCCGCCTGGCTAACCTGGAG	3840	Db	4621	AAAGTTCACTCTGTCAGCAAGCTGTTACCCCTAACATTCAGTGTGAAATATGCTTA	4680
Qy	3841	AGAGAAATTAATTAATAGGAAACAACCTAACAGAGGTGTTCTGAGCTG	3900	Qy	4621	AAAGTTCACTCTGTCAGCAAGCTGTTACCCCTAACATTCAGTGTGAAATATGCTTA	4680
Db	3841	AGAGAAATTAATTAATAGGAAACAACCTAACAGAGGTGTTCTGAGCTG	3900	Db	4621	AAAGTTCACTCTGTCAGCAAGCTGTTACCCCTAACATTCAGTGTGAAATATGCTTA	4680
Qy	3901	TAGTAGGCTGATTTGTTAACCTTAAGTCGGCTGTCACTGACTAC	3960	Qy	4801	CCAGCTGCTACAGCTGGCTGCTGCTGAGCTCTGTTCTAA	4860
Db	3901	TAGTAGGCTGATTTGTTAACCTTAAGTCGGCTGTCACTGACTAC	3960	Db	4801	CCAGCTGCTACAGCTGGCTGCTGAGCTCTGTTCTAA	4860
Qy	3961	ATTATAAAATCACTCTGATATCACAAGAAGCTACACAAGAGCTG	4020	Qy	4861	CCAGCTGCTACAGCTGGCTGCTGAGCTCTGTTCTAA	4860
Db	3961	ATTATAAAATCACTCTGATATCACAAGAAGCTACACAAGAGCTG	4020	Db	4861	CCAGCTGCTACAGCTGGCTGCTGAGCTCTGTTCTAA	4860
Qy	3961	ATTATAAAATCACTCTGATATCACAAGAAGCTACACAAGAGCTG	4020	Qy	4921	CAAGACCTGCTGGCTAACAGAGGTGTTCTGAGCTG	4980
Db	3961	ATTATAAAATCACTCTGATATCACAAGAAGCTACACAAGAGCTG	4020	Db	4921	CAAGACCTGCTGGCTAACAGAGGTGTTCTGAGCTG	4980
Qy	3961	ATTATAAAATCACTCTGATATCACAAGAAGCTACACAAGAGCTG	4020	Qy	4981	CAAGACCTGCTGGCTAACAGAGGTGTTCTGAGCTG	4980
Db	3961	ATTATAAAATCACTCTGATATCACAAGAAGCTACACAAGAGCTG	4020	Db	4981	CAAGACCTGCTGGCTAACAGAGGTGTTCTGAGCTG	4980
Qy	3961	ATTATAAAATCACTCTGATATCACAAGAAGCTACACAAGAGCTG	4020	Qy	4981	CAAGACCTGCTGGCTAACAGAGGTGTTCTGAGCTG	4980
Db	3961	ATTATAAAATCACTCTGATATCACAAGAAGCTACACAAGAGCTG	4020	Db	4981	CAAGACCTGCTGGCTAACAGAGGTGTTCTGAGCTG	4980
Qy	3961	ATTATAAAATCACTCTGATATCACAAGAAGCTACACAAGAGCTG	4020	Qy	5041	CAACATGCAATGAAATCCATGAAATGTCCTGAGAGACTAGAG	5100
Db	3961	ATTATAAAATCACTCTGATATCACAAGAAGCTACACAAGAGCTG	4020	Db	5041	CAACATGCAATGAAATCCATGAAATGTCCTGAGAGACTAGAG	5100

RESULT 2

```

US-09-966-880A-15/c
; Sequence 15, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; CURRENT FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 6564
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-10

Query Match 3.2%; Score 178.6; DB 1; Length 6564;
Best Local Similarity 83.1%; Pred. No. 1.8;
Matches 202; Conservative 1; Mismatches 40; Indels 0; Gaps 0;

```

QY 5101 AATAAACAGAACTTACACAGTCATAGCAGCTAACTGCTATTATTATT 5160
Db 5101 AATAAACAGAACTTACACAGTCATAGCAGCTAACTGCTATTATTATT 5160
QY 5161 AGACACTATGATATTGAGTTAAAMCTTAATTTAAATTAGACCTCT 5220
Db 5161 AGACACTATGATATTGAGTTAAAMCTTAATTTAAATTAGACCTCT 5220
QY 5221 ATTTTCATAGTACGTTGACAATGATCAGTATACCTTCTTTTTTT 5280
Db 5221 ATTTTCATAGTACGTTGACAATGATCAGTATACCTTCTTTTTTT 5280
QY 5281 TTTTTTTTGAGATGGAGTTGCTGTGCGCAATGCTGGAGTGAAGGATG 5340
Db 5281 TTTTTTTTGAGATGGAGTTGCTGTGCGCAATGCTGGAGTGAAGGATG 5340
QY 5341 AYCATAGCTACTGCACCTCACCTCTGGTCAGAAAGCTGTGCTAGCC 5400
Db 5341 AYCATAGCTACTGCACCTCACCTCTGGTCAGAAAGCTGTGCTAGCC 5400
QY 5401 CGGGTAGATGGATTACAGGGGCCACACACACTCGCTAATGTTGATA 5460
Db 5401 CGGGTAGATGGATTACAGGGGCCACACACACTCGCTAATGTTGATA 5460
QY 5461 GAGATGGGTTACCATGTTGGCCAGGGCTCAACCTCTGACCTAGAG 5514
Db 5461 GAGATGGGTTACCATGTTGGCCAGGGCTCAACCTCTGACCTAGAG 5514

RESULT 3

```

US-09-966-880A-10/c
; Sequence 10, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-03-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 6564
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-10

Query Match 3.2%; Score 178.6; DB 1; Length 6564;
Best Local Similarity 83.1%; Pred. No. 1.8;
Matches 202; Conservative 1; Mismatches 40; Indels 0; Gaps 0;

```

QY 5270 TTTTTTTTTTTTTTGAGATGGATTACGAGTTGCTGTGCTGTGGAT 5329
Db 5270 TTTTTTTTTTTTTTGAGATGGATTACGAGTTGCTGTGCTGTGGAT 5329
QY 5330 GCAATGCATGCACTGCACTCCACCTCTGGTCAGCAAAGCTGTGCG 5389
Db 5330 GCAATGCATGCACTGCACTCCACCTCTGGTCAGCAAAGCTGTGCG 5389
QY 5390 CCTCAGGCTCCGGGTTAGATGGGATACAGSGGCCACACACCTCGCTAATGTTG 5449
Db 5390 CCTCAGGCTCCGGGTTAGATGGGATACAGSGGCCACACACCTCGCTAATGTTG 5449
QY 5450 TATTTTGTAGAGATGGGTTACCATGTTGGCAGGCTGGCTCAACTCGACT 5509
Db 5450 TATTTTGTAGAGATGGGTTACCATGTTGGCAGGCTGGCTCAACTCGACT 5509
QY 5510 CATTTCAGACAGGGTTGCGATGTTGGCCAGGGTGTCAACTCGACT 5015
Db 5510 CAG 5512
QY 5014 CAG 5012

RESULT 4

```

US-09-966-880A-15
; Sequence 15, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-00001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-03-28
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 6564
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-15

Query Match 3.2%; Score 178.6; DB 1; Length 2172;
Best Local Similarity 83.1%; Pred. No. 1.1;
Matches 202; Conservative 1; Mismatches 40; Indels 0; Gaps 0;

```

QY 5144 TTTTTTTTTTTTTTGAGATGGATTACGAGTTGCTGTGCTGTGGAT 1455
Db 5144 TTTTTTTTTTTTTTGAGATGGATTACGAGTTGCTGTGCTGTGGAT 1455
QY 5330 GGATGGCATAYCATGCTACTGCACCTCCACCTCTGGTCAGCAAAGCTGTGCG 5389
Db 5330 GGATGGCATAYCATGCTACTGCACCTCCACCTCTGGTCAGCAAAGCTGTGCG 5389
QY 1454 GCAACGCCACGATCTGCTACTGCACCTCCACCTCTGGTCAGCAAAGCTGTGCG 1395
Db 1454 GCAACGCCACGATCTGCTACTGCACCTCCACCTCTGGTCAGCAAAGCTGTGCG 1395
QY 5390 CCTCAGGCTCCGGGTTAGATGGGATACAGSGGCCACACACCTCGCTAATGTTG 5449
Db 5390 CCTCAGGCTCCGGGTTAGATGGGATACAGSGGCCACACACCTCGCTAATGTTG 5449
QY 1394 CCTGGCTCCGGATGCTGGATACAGTGCTGGCTCAACTCGACT 1335
Db 1394 CCTGGCTCCGGATGCTGGATACAGTGCTGGCTCAACTCGACT 1335
QY 5450 TATTTTGTAGAGATGGGTTACCATGTTGGCAGGCTGGCTCAACTCGACT 5509

RESULT 7
US-09-966-880A-11
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tatsuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SEQ ID NO: 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

Query Match 0.3%; Score 183; DB 1; Length 148;
Best Local Similarity 64.6%; Pred. No. 55; Mismatches 22; Indels 1; Gaps 1;
Matches 42; Conservative 0; MisMatches 22; Indels 1; Gaps 1;

RESULT 8
US-09-966-880A-12/c
; Sequence 12, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tatsuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SEQ ID NO: 12
; LENGTH: 148
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-12

Query Match 1.6%; Score 87; DB 1; Length 87;
Best Local Similarity 100.0%; Pred. No. 4; Mismatches 0; Indels 0; Gaps 0;
Matches 87; Conservative 0; MisMatches 0; Indels 0; Gaps 0;

RESULT 9
US-09-966-880A-13/c
; Sequence 13, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tatsuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SEQ ID NO: 13
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-13

Query Match 0.3%; Score 176; DB 1; Length 271;
Best Local Similarity 52.8%; Pred. No. 60; Mismatches 34; Indels 0; Gaps 0;
Matches 38; Conservative 0; MisMatches 34; Indels 0; Gaps 0;

RESULT 10
US-09-966-880A-14
; Sequence 14, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tatsuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SEQ ID NO: 14
; LENGTH: 148
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-14

Query Match 0.3%; Score 183; DB 1; Length 148;
Best Local Similarity 64.6%; Pred. No. 55; Mismatches 22; Indels 1; Gaps 1;
Matches 42; Conservative 0; MisMatches 22; Indels 1; Gaps 1;

RESULT 11
US-09-966-880A-15
; Sequence 15, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SEQ ID NO: 15
; LENGTH: 148
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-15

Query Match 0.3%; Score 183; DB 1; Length 148;
Best Local Similarity 64.6%; Pred. No. 55; Mismatches 22; Indels 1; Gaps 1;
Matches 42; Conservative 0; MisMatches 22; Indels 1; Gaps 1;

RESULT 12
US-09-966-880A-16
; Sequence 16, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tatsuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SEQ ID NO: 16
; LENGTH: 148
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-16

Query Match 0.3%; Score 183; DB 1; Length 148;
Best Local Similarity 64.6%; Pred. No. 55; Mismatches 22; Indels 1; Gaps 1;
Matches 42; Conservative 0; MisMatches 22; Indels 1; Gaps 1;

```

; SEQ ID NO 14
; LENGTH: 116
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-14

Query Match          0.3%; Score 16.2; DB 1; Length 116;
Best Local Similarity 52.2%; Pred. No. 53; Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
; Organism: Homo sapiens
; US-09-966-880A-14

RESULT 11
US-09-966-880A-13
; Sequence 13, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-13

Query Match          0.3%; Score 16; DB 1; Length 271;
Best Local Similarity 55.4%; Pred. No. 62; Matches 31; Conservative 0; Mismatches 25; Indels 0; Gaps 0;
; Organism: Homo sapiens
; US-09-966-880A-13

RESULT 12
US-09-966-880A-12
; Sequence 12, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87

Query Match          0.3%; Score 15.4; DB 1; Length 148;
Best Local Similarity 76.0%; Pred. No. 59; Matches 19; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
; Organism: Homo sapiens
; US-09-966-880A-12

RESULT 13
US-09-966-880A-14/c
; Sequence 14, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 116
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-14

Query Match          0.3%; Score 14.8; DB 1; Length 116;
Best Local Similarity 59.5%; Pred. No. 55; Matches 25; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
; Organism: Homo sapiens
; US-09-966-880A-14
```

TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-11

Query Match 0.3%; Score 14.4; DB 1; Length 87;
Best Local Similarity 51.6%; Pred. No. 49; Mismatches 31; Indels 0; Gaps 0;
Matches 33; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

QY 579 CTGCTGTACTGAGGTCAAGAGACTCTGGAATATCGGGCAATTAGACCTATCTGAG 638
Db 87 CTGCTCATATGGTGTCCAAAGTGCTCTCTCTCAGTCAGGCCAGAAA 28
QY 639 GCTC 642
Db 27 TCTC 24

Search completed: March 10, 2004, 13:40:45
Job time : 49.087 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 10, 2004, 13:38:36 ; Search time 56.0535 Seconds
(without alignments)
3.483 Million cell updates/sec

Title: US-09-966-880A-10

Perfect score: 6564
Sequence: 1 gggggctgtaatccagct.....cttccacaaagggtcaag 6564

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 7 seqs, 14872 residues

Total number of hits satisfying chosen parameters: 14

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : US09966880A.seq*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match Length	DB ID	Description
1	6564	100.0	6564	1	US-09-966-880A-10

Result No.	Score	Query	Match Length	DB ID	Description
2	2172	33.1	2172	1	US-09-966-880A-15

Result No.	Score	Query	Match Length	DB ID	Description
3	271	4.1	271	1	US-09-966-880A-13

Result No.	Score	Query	Match Length	DB ID	Description
4	178.6	2.7	5514	1	US-09-966-880A-9

Result No.	Score	Query	Match Length	DB ID	Description
5	174.2	2.7	5514	1	US-09-966-880A-9

Result No.	Score	Query	Match Length	DB ID	Description
6	148	2.3	US-09-966-880A-12		Sequence 10, Appl

Result No.	Score	Query	Match Length	DB ID	Description
7	116	1.8	116	1	US-09-966-880A-14

Result No.	Score	Query	Match Length	DB ID	Description
8	34.8	0.5	6564	1	US-09-966-880A-10

Result No.	Score	Query	Match Length	DB ID	Description
9	29.4	0.4	2172	1	US-09-966-880A-15

Result No.	Score	Query	Match Length	DB ID	Description
10	20.6	0.3	271	1	US-09-966-880A-13

Result No.	Score	Query	Match Length	DB ID	Description
11	17.4	0.3	17	1	US-09-966-880A-11

Result No.	Score	Query	Match Length	DB ID	Description
12	17	0.3	116	1	US-09-966-880A-14

Result No.	Score	Query	Match Length	DB ID	Description
13	15.8	0.2	87	1	US-09-966-880A-11

Result No.	Score	Query	Match Length	DB ID	Description
14	15.8	0.2	148	1	US-09-966-880A-12

ALIGNMENTS

RESULT 1
US-09-966-880A-10
Sequence 10, Application US/09966880A

GENERAL INFORMATION:
APPLICANT: Honjo, Tsukuru
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 0601-088001
CURRENT APPLICATION NUMBER: US/09/966, 880A
PRIORITY DATE: 2001-03-28
PRIORITY APPLICATION NUMBER: PCT/JP00/01918

PRIOR FILING DATE: 2000-03-28
PRIOR FILING DATE: JP 11-371382
PRIOR APPLICATION NUMBER: JP 11-178999
PRIORITY DATE: 1999-06-24
PRIORITY APPLICATION NUMBER: JP 11-87192

PRIOR FILING DATE: 1999-03-29
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO: 10
LENGTH: 6564

TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-10

Query Match 100.0%; Score 6564; DB 1; length 6564;
Best Local Similarity 100.0%; Pred. No. 1 2e-44; Mismatches 0; Indels 0; Gaps 0;
Matches 6564; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGGCTGTAACTCAGACTCAGGGGCTGGGGAGATCCGGAGCTGCA 60
Db 1 GGGGGCTGTAACTCAGACTCAGGGGCTGGGGAGATCCGGAGCTGCA 60

QY 61 GATCAGCCCTGAGCCCTGAGGTACAGTAAGCCAGATCATCCGAGTATTC 120
Db 61 GATCAGCCCTGAGCCCTGAGGTACAGTAAGCCAGATCATCCGAGTATTC 120

QY 121 AGCCCTGGCACAAGTAGGAGACCTAAACAAAAAAATTAACAAAGAAATTAG 180
Db 121 AGCCCTGGCACAAGTAGGAGACCTAAACAAAAAAATTAACAAAGAAATTAG 180

QY 181 ATCAAGATCCTAACGTTAGCTGAACTGTTAGGCTAAACCCACATTAAAGGATTTAG 240
Db 181 ATCAAGATCCTAACGTTAGCTGAACTGTTAGGCTAAACCCACATTAAAGGATTTAG 240

QY 241 TGCAGGGAGAGAGACATCAGGGGTTCAGCATCGGAATGGCATGGTGCACCTGT 300
Db 241 TGCAGGGAGAGAGACATCAGGGGTTCAGCATCGGAATGGCATGGTGCACCTGT 300

QY 301 TTTCGGAGATCAGTGTGAGCTGAGCTGTTGGAGATGTGTTGGAGCTGGAG 360
Db 301 TTTCGGAGATCAGTGTGAGCTGAGCTGTTGGAGATGTGTTGGAGCTGGAG 360

QY 361 ACAGACGGTTAAAGGCCAGCAACAGATAAGGAGAGATGGGGCTTGGACCG 420
Db 361 ACAGACGGTTAAAGGCCAGCAACAGATAAGGAGAGATGGGGCTTGGACCG 420

QY 421 AAGCAGAGAGAGACAAAGGGAGTCAAACTCAAGAAATATGGGGGTGAACTCA 480
Db 421 AAGCAGAGAGAGACAAAGGGAGTCAAACTCAAGAAATATGGGGGTGAACTCA 480

QY 481 ACACATTAGATTAATTAATATGGGACTGAGGATAAGAACTAGTCAGGATG 540
Db 481 ACACATTAGATTAATTAATATGGGACTGAGGATAAGAACTAGTCAGGATG 540

QY 541 TTCCAGGCTCTAGCTGTTACTCTGAGCTGGCAAGCTGGAGGAGTGGCACTTGA 600
Db 541 TTCCAGGCTCTAGCTGTTACTCTGAGCTGGCAAGCTGGAGGAGTGGCACTTGA 600

Db	541 RTCCAGGCTGCTAGGCTTACCTGAGGGCAARGTCGGGAGGTGGCAAGT 600	Qy	1681 TTTCCCTACTCACATGGCTAGGCAGTAACTCACATGGTACGCCA 1740
Qy	601 CAGGGCGCAGTGAGGAATATGTTGATCAATTGAGITGAGTGAGTCAAGTGACAC 660	Db	1681 TTTCCCTACTCACATGGCTAGGCAGTAACTCACATGGTACGCCA 1740
Db	601 CAGGGCGCAGTGAGGAATATGTTGATCAATTGAGITGAGTGAGTCAAGTGACAC 660	Qy	1741 GAAACTCAGAGAGGCTGGGTATGATGATAATTAATGATCTTGGCTACGGAGG 1800
Qy	661 TTGTAAGACTGGAGGGAAATCTGAATACTACATTGAGCTGAGGAACTGTTA 720	Db	1741 GAAACTCAGAGAGGCTGGGTATGATGATAATTAATGATCTTGGCTACGGAGG 1800
Db	661 TTGTAAGACTGGAGGGAAATCTGAATACTACATTGAGCTGAGGAACTGTTA 720	Qy	1801 AATACATTCCAGAGACTTACCAAATTCAGATGGTTACATAACTCTGCC 1860
Qy	721 TTGTTTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 780	Db	1801 AATACATTCCAGAGACTTACCAAATTCAGATGGTTACATAACTCTGCC 1860
Db	721 TTGTTTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 780	Qy	1861 CATGGCTCTCTCTCTCTACAGCTGAGCTGCTGGCTGGCTGGCTGGTGTACGG 1920
Qy	781 AGCATCTAGAGAACAGTGGCGGAGGTGATGCTGTTGTTGTTGTTGTTGTTG 840	Db	1861 CATGGCTCTCTCTCTACAGCTGAGCTGCTGGCTGGCTGGTGTACGGTACGG 1920
Db	781 AGCATCTAGAGAACAGTGGCGGAGGTGATGCTGTTGTTGTTGTTGTTGTTG 840	Qy	1881 AATTCTTCCAGAGACTTACCAAATTCAGATGGTTACATAACTCTGCC 1920
Qy	841 ATGAGTACTCTCAATTGGCTTAATATAGCAGAAAGAGTTATGTTGTTGTTG 900	Db	1881 AATTCTTCCAGAGACTTACCAAATTCAGATGGTTACATAACTCTGCC 1920
Db	841 ATGAGTACTCTCAATTGGCTTAATATAGCAGAAAGAGTTATGTTGTTGTTG 900	Qy	1921 AGCATCCGGGGGGAGGTGATGTTGCTGCTGTTGTTGTTGTTGTTGTTG 980
Qy	901 GGCTCAGCAGGCGCTCAGGAGCTCTGAGGACATCTGTTGTTGTTGTTGTTG 960	Db	1921 AGCATCCGGGGGGAGGTGATGTTGCTGCTGCTGTTGTTGTTGTTGTTG 980
Db	901 GGCTCAGCAGGCGCTCAGGAGCTCTGAGGACATCTGTTGTTGTTGTTGTTG 960	Qy	1981 AATTCTTCTGCTACTTACGAGGTTGATTAATGAGCTGAGGAATTCAGAGT 1020
Qy	961 GGTAGGCCAGTAATGACTCTTAAAGCTGAGGAATTCAGAGTACGGAGATT 1020	Db	1981 AATTCTTCTGCTACTTACGAGGTTGATTAATGAGCTGAGGAATTCAGAGT 1020
Db	961 GGTAGGCCAGTAATGACTCTTAAAGCTGAGGAATTCAGAGTACGGAGATT 1020	Qy	2041 GACACATTCTACAGAGGTTGATTAATGAGCTGAGGAATTCAGAGTACGGT 2100
Qy	1081 AGGAAGTTCTTACAAATGTCGCTGGCTAGGGTGGGTGAGACCT 1140	Db	2041 GACACATTCTACAGAGGTTGATTAATGAGCTGAGGAATTCAGAGTACGGT 2100
Db	1081 AGGAAGTTCTTACAAATGTCGCTGGCTAGGGTGGGTGAGACCT 1140	Qy	2101 AGTGCCTTACACTCTTACATACCCATCTGCTGCTGCTTACCAAATTTAC 2160
Qy	1021 ATAACTGACTCTGCTTACCAATTAAATGTCGCTGGCTAGGGTGGGTGAGACCT 1180	Db	2101 AGTGCCTTACACTCTTACATACCCATCTGCTGCTGCTTACCAAATTTAC 2160
Db	1021 ATAACTGACTCTGCTTACCAATTAAATGTCGCTGGCTAGGGTGGGTGAGACCT 1180	Qy	2161 TTTAGATCCAAATGGCTCTAACTGCTCTTACAAAGGTCAAAGGTCAA 2280
Qy	1141 CTGTGCTACGGAGTGTAGAGGCGCTGAGCTCT 1200	Db	2161 TTTAGATCCAAATGGCTCTAACTGCTCTTACAAAGGTCAAAGGTCAA 2280
Db	1141 CTGTGCTACGGAGTGTAGAGGCGCTGAGCTCT 1200	Qy	2221 TATTCCACAGTTGATCAACGGACTCTGAGCTCTTACCCATGTCGTTGCT 2340
Qy	1201 CTTCGAACTAGGTACAATTAAAGTCAATTAAAGTCAACTTGTGAGGATCT 1260	Db	2221 TATTCCACAGTTGATCAACGGACTCTGAGCTCTTACCCATGTCGTTGCT 2340
Db	1201 CTTCGAACTAGGTACAATTAAAGTCAACTTGTGAGGATCT 1260	Qy	2281 AAAGCAACTCTAAACAAATAATCTTGGTAGGTTGATGCTGCTTCTCTC 2340
Qy	1261 TGCTTTAGAGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1320	Db	2281 AAAGCAACTCTAAACAAATAATCTTGGTAGGTTGATGCTGCTTCTCTC 2340
Db	1261 TGCTTTAGAGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1320	Qy	2341 CAACTCGGGACTCTCTCTGATTCCAGAACCCATAGCTTCTGCTGCTGCT 2400
Qy	1321 ATCACATCCCTCAAATCCTTTTATTCTTCCATGTCATGCCAACCATATTGA 1380	Db	2341 CAACTCGGGACTCTCTCTGATTCCAGAACCCATAGCTTCTGCTGCTGCT 2400
Db	1321 ATCACATCCCTCAAATCCTTTTATTCTTCCATGTCATGCCAACCATATTGA 1380	Qy	2401 AGGACTTGTCGCCAGGGTCAGCTTACCTCTGTTGGGGCTCTTCTGCTGCT 2460
Qy	1381 CATGCCCAAAATGATGATTAATCTCCCTGAACTCTCCACCTAATCCT 1440	Db	2401 AGGACTTGTCGCCAGGGTCAGCTTACCTCTGTTGGGGCTCTTCTGCTGCT 2460
Db	1381 CATGCCCAAAATGATGATTAATCTCCCTGAACTCTCCACCTAATCCT 1440	Qy	2461 TPGCTCTGCTGAGCTTACCAAGGCAATAGCTGAGCTCCAAAGAGCTTCTC 2520
Qy	1441 OCTCTCTCAGTGCCTGCAAGAACACTCTCCACCTGTTACAGCTTCTCAGCATCT 1500	Db	2461 TPGCTCTGCTGAGCTTACCAAGGCAATAGCTGAGCTCCAAAGAGCTTCTC 2520
Db	1441 OCTCTCTCAGTGCCTGCAAGAACACTCTCCACCTGTTACAGCTTCTCAGCATCT 1500	Qy	2581 TPGCTCTGCTGAGCTTACCAAGGCAATAGCTGAGCTCCAAAGAGCTTCTC 2580
Qy	1501 GATGCGCTTGTGAGTAATTAAGCTAACGATTTTATGAGATATATGAGCT 1560	Db	2581 TPGCTCTGCTGAGCTTACCAAGGCAATAGCTGAGCTCCAAAGAGCTTCTC 2580
Db	1501 GATGCGCTTGTGAGTAATTAAGCTAACGATTTTATGAGCT 1560	Qy	2641 ACTAGACCTGGCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2700
Qy	1561 TGTCCAGCAAAATTAAATGTAACATGTCAGGATTTGAAATT 1620	Db	2641 ACTAGACCTGGCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2700
Db	1561 TGTCCAGCAAAATTAAATGTAACATGTCAGGATTTGAAATT 1620	Qy	2701 ACTGCGGAGATGGCGCACTCTGCGAGGAACCCACCTCACTCTGAGATCT 2760
Qy	1621 AGGAGAAGAAGATTGGAAAAATTAACGGGGTCACTCTGTTCAATGATTC 1680	Db	2701 ACTGCGGAGATGGCGCACTCTGCGAGGAACCCACCTCACTCTGAGATCT 2760
Db	1621 AGGAGAAGAAGATTGGAAAAATTAACGGGGTCACTCTGTTCAATGATTC 1680		

Db 4921 AAAAAAAAAAAGAAGAGAGAGGGCGGGGCTGGCTCACGCCGTAAATCCA 4980
 QY 4981 GCACTTGGGGCCGAGCCGGCATACTGTGTGTCAGAGTTTGAGACAGCTGG 5040
 Db 4981 GCACTTGGGGCCGAGCCGGCATACTGTGTGTCAGAGTTTGAGACAGCTGG 5040
 QY 5041 CCACATGGCAAACCGCGTGTACTCAAATGCAAATTAGCAGCGCTGTGAG 5100
 Db 5041 CCACATGGCAAACCGCGTGTACTCAAATGCAAATTAGCAGCGCTGTGAG 5100
 QY 5101 GAACTGTAATCCAGTACTGGAGGCTTGGAGGAGAGATGTGGAAAGGG 5160
 Db 5101 GCACTTAATCCAGTACTGGAGGCTTGGAGGAGAGATGTGGAAAGGG 5160
 QY 5161 TGGAGGTGCACTAAGTGAATGTCGGCGTGTGACTCCAGGAGGAGGAG 5220
 Db 5161 TGGAGGTGCACTAAGTGAATGTCGGCGTGTGACTCCAGGAGGAGGAG 5220
 QY 5221 ACTCTGTCGAGAAAAAAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 5280
 Db 5221 ACTCTGTCGAGAAAAAAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 5280
 QY 5281 AGAAGAGGATGGGGAGCATTCGAAGAAATGGGTTAACACAAGAATGGAGC 5340
 Db 5281 AGAAGAGGATGGGGAGCATTCGAAGAAATGGGTTAACACAAGAATGGAGC 5340
 QY 5341 CAATAAGGGAACCTTAATTGGCTTGGCTPATTCCTAACACTGTTGCTCA 5400
 Db 5341 CAATAAGGGAACCTTAATTGGCTTGGCTTGGCTPATTCCTAACACTGTTGCTCA 5400
 QY 5401 CGTGAGAAATATTAGAATACCATATGCTGCGGTATACCTAGAACCTG 5460
 Db 5401 CGTGAGAAATATTAGAATACCATATGCTGCGGTATACCTAGAACCTG 5460
 QY 5461 CTTGAGATGAGATCCAGGAAACTGTGCAACACTGCTTATTTATCT 5520
 Db 5461 CTTGAGATGAGATCCAGGAAACTGTGCAACACTGCTTATTTATCT 5520
 QY 5521 ATGGTACATAGTTGAAGAGTAAATGTACTCTGTGTTATTT 5580
 Db 5521 ATGGTACATAGTTGAAGAGTAAATGTACTCTGTGTTATTT 5580
 QY 5581 ATATTATTGCGCTTAATGATTTTATACATGATTCTCTGATATTGAAA 5640
 Db 5581 ATATTATTGCGCTTAATGATTTTATACATGATTCTCTGATATTGAAA 5640
 QY 5641 TGGAGCTCAAGCTCAATAATTAACTTACAGGATCTAACAGTAGT 5700
 Db 5641 TGGAGCTCAAGCTCAATAATTAACTTACAGGATCTAACAGTAGT 5700
 QY 5701 AATTGTCACATGCGTAATGGCTACGAGGCAATTCTTGATTTGAACTT 5760
 Db 5701 AATTGTCACATGCGTAATGGCTACGAGGCAATTCTTGATTTGAACTT 5760
 QY 5761 TATGACAGCAATTGCTCTGGCTACCTCAATGTTAAATGATAATT 5820
 Db 5761 TATGACAGCAATTGCTCTGGCTACCTCAATGTTAAATGATAATT 5820
 QY 5821 TGGAACTGTCAGTGAATACCAATAATAAAAGGATTATGAGTT 5880
 Db 5821 TGGAACTGTCAGTGAATACCAATAATAAAAGGATTATGAGTT 5880
 QY 5881 AAATAAAATCAGTGAATACCAATAATAAAAGGATTATGAGTT 5940
 Db 5881 AAATAAAATCAGTGAATACCAATAATAAAAGGATTATGAGTT 5940
 QY 5941 TAATCACTAATTCTCACAGGGCTAATGACCATCACTGGAAATAATGATCT 6000
 Db 5941 TAATCACTAATTCTCACAGGGCTAATGACCATCACTGGAAATAATGATCT 6000
 QY 6001 CAACAAATGGGCTGACTTAATGGATATTCATGAAAGGATGATTGGCTCTAC 6060
 Db 6001 CAACAAATGGGCTGACTTAATGGATATTCATGAAAGGATGATTGGCTCTAC 6060

RESULT 2
 US-09-366-880A-15
 Sequence 15, Application US/09966880A
 GENERAL INFORMATION:
 APPLICANT: Honjo, Tasuku
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 09501-088001
 CURRENT APPLICATION NUMBER: US/09/966, 880A
 CURRENT FILING DATE: 2001-09-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1993-12-27
 PRIOR APPLICATION NUMBER: JP 11-178999
 PRIOR FILING DATE: 1993-06-24
 PRIOR APPLICATION NUMBER: JP 11-87192
 PRIOR FILING DATE: 1993-03-29
 NUMBER OF SEQ ID NOS: 36
 SOFTWARE: FASTSEQ for Windows Version 4.0
 ; SEQ_ID NO 15
 ; LENGTH: 2172
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-366-880A-15

Query Match 33.1%; Score 2172; DB 1; Length 2172;
 Best Local Similarity 100.0%; Pred. No. 2.1e-14;
 Matches 2172; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3741 CCCTGTGATGAGGTGAGCTACGAGGATGGTACTTGGACTTGATAGCA 3800
 Db 1 CCCCTGTGATGAGGTGAGCTACGAGGATGGTACTTGGACTTGATAGCA 3800
 QY 3801 CTTCAGGAACTCACACGATGAAATATCTCTGAGACAGGGTAAACAGT 3860

QY	61	CPTTCAGGAAAGTCACACATGJAATACTCTUJTGAGAGACAUJGTAARAACAGT	120
QY	3861	CCTTCAGCTCTCTGTGTTTATTCTCACTCCTACTCTTGAGTTACGGAAA	3920
Db	121	CCTTCAGCTCTCTGTGTTTATTCTCACTCCTACTCTTGAGTTACGGAAA	180
QY	3921	ATATTATATAGCATCTTAAACAGAATCTAGTCGAGAAATAGAGAACAGGT	3980
Db	181	ATATTATATAGCATCTTAAACAGAATCTAGTCGAGAAATAGAGAACAGGT	240
QY	3981	CTGGCAGGGAGCTGCAUTGTCAGTTAGCAACGTTATGCACATGTCGCC	4040
Db	241	CTGGCAGGGAGCTGCAUTGTCAGTTAGCAACGTTATGCACATGTCGCC	300
QY	4041	ATAAGAGACTGCGGACTCTGGGACCTCTAATGTCACGTTCTATGAGTTA	4100
Db	301	ATAAGAGACTGCGGACTCTGGGACCTCTAATGTCACGTTCTATGAGTTA	360
QY	4161	TATCACACATCTTATTGATCATTTGATCTTAAAGCAGTCGAGAAATAGTTA	4160
Db	421	TATCACACATCTTATTGATCATTTGATCTTAAAGCAGTCGAGAAATAGTTA	420
QY	4281	TCTATAGGACCTCTATGAGTACTGCTGAGTTACAGTGGTTAGTCAATTT	4220
Db	4221	TCTATCTTCCCTGAGCTTACCTTCATAGGGATGA	4280
QY	4341	GCATTAATATCCTATGCGCTGATGTTAACGAGACATCTTCATGGGATGA	4400
Db	601	GCATTAATATCCTATGCGCTGATGTTAACGAGACATCTTCATGGGATGA	660
QY	4401	TACAAGAGAGTTATGAGTACTGCTGAGGATAGACCATGGTCACCTCAA	4460
Db	661	TACAAGAGAGTTATGAGTACTGCTGAGGATAGACCATGGTCACCTCAA	720
QY	4461	GCTACTTTAATAGAGACTTAAATGGCGAGGACTGAGAACACCCATAA	4520
Db	721	GCTACTTTAATAGAGACTTAAATGGCGAGGACTGAGAACACCCATAA	780
QY	4521	TGGGTGATGCTGAAGTAGCAACTCTCTGGAAACCAACTCTTTAAGGAGCT	4580
Db	781	TGGGTGATGCTGAAGTAGCAACTCTCTGGAAACCAACTCTTTAAGGAGCT	840
QY	4581	ATTAGAACACCCACAACTCCTACATCTATGAAACAAATTGGAGGAAGTG	4640
Db	841	ATTAGAACACCCACAACTCCTACATCTATGAAACAAATTGGAGGAAGTG	900
QY	4641	CTTGAACTGGGAGGAAATTCTTGTGTTCTCTCATCTCAAGAAT	4700
Db	901	CTTGAACTGGGAGGAAATTCTTGTGTTCTCTCATCTCAAGAAT	960
QY	4701	CCATCAGGTCAAGTGTGCACTTTGTGATGTTGATGCTCTCCAAAGGAT	4760
Db	961	CCATCAGGTCAAGTGTGCACTTTGTGATGCTCTCCAAAGGAT	1020
QY	4761	TRACTATAAGAGAGTTGCAACACAGATGATAAGCTGCCAACCGTGCACGC	4820
Db	1021	TRACTATAAGAGAGTTGCAACACAGATGATAAGCTGCCAACCGTGCACGC	1080
QY	4821	TCATAGTCTAGTGTGCTTGGAGGTTGAGGAGGATGCTGCAACAGGT	4880
Db	1081	TCATAGTCTAGTGTGCTTGGAGGTTGAGGAGGATGCTGCAACAGGT	1140
QY	4881	GGCCAGCTGGGACATACAGATCCTGTCCTCAAAAAAAAGAA	4940
Db	1141	GGCCAGCTGGCACAATACAGATCCTGTCCTCAAAAAAAAGAA	1200
QY	4941	GAGAGGG	5000
Db	1201	GAGAGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1260
QY	5001	GGGGCATACCTGTTGAGGCACTGGGACACTTGCCAAACCGGT	5060
Db	1261	GGGGGGCATACCTGTTGAGGCACTGGGACACTTGCCAAACCGGT	1320
QY	5061	CTGACTCAAAATGCAAATAGCCAGGCTGGAGGACCTGTAATCCAGG	5120
Db	1321	CTGACTCAAAATGCAAATAGCCAGGCTGGAGGACCTGTAATCCAGG	1380
QY	5121	TGGGGGGCTAGGGAGGAGATGCGCTGAACCCAGGAGGTGCGAAGTGA	5180
Db	1381	TGGGGGGCTAGGGAGGAGATGCGCTGAACCCAGGAGGTGCGAAGTGA	1440
QY	5181	GATGCGCCGCTGCACTCCAGCTGGGGAGAAGAGCAAGCTCTCAGA	5240
Db	1441	GATGCGCCGCTGCACTCCAGCTGGGGAGAAGAGCAAGCTCTCAGA	1500
QY	5241	AAAAAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	5300
Db	1501	AAAAAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	5360
QY	5301	TGCAAGAAATTGCGTTACCAACGAACTGAGGCAATAAGGATCCTATTG	5360
Db	1561	TGCAAGAAATTGCGTTACCAACGAACTGAGGCAATAAGGATCCTATTG	1620
QY	5361	TCTTTGGCTATGCGCTTACAACTGCTTGAAGTGGAGAAATATTGGAGAGGAT	1560
Db	1621	TCTTTGGCTATGCGCTTACAACTGCTTGAAGTGGAGAAATATTGGAGAGGAT	1680
QY	5421	ATACCATATCCTGGCCGTTACCTAGCTAGGATGACCCACCATCTCCAA	5480
Db	1681	ATACCATATCCTGGCCGTTACCTAGCTAGGATGACCCACCATCTCCAA	1740
QY	5481	ACGAAAACTGAACTGCAACTGCTGTTTAACCTTGTGAGGATGAGCAGATC	5540
Db	1741	ACGAAAACTGAACTGCAACTGCTGTTTAACCTTGTGAGGATGAGCAGATC	1800
QY	5541	AGGTTAAATGTTACTTGTATGTTGTTGTTGTTGTTGTTGTTGTTGTTG	5600
Db	1801	AGGTTAAATGTTACTTGTATGTTGTTGTTGTTGTTGTTGTTGTTG	1860
QY	5601	ATTTTTTTAACTACATGTTCTTGTGATTTGTTGTTGTTGTTGTTGTTG	5660
Db	1861	ATTTTTTTAACTACATGTTCTTGTGATTTGTTGTTGTTGTTGTTGTTG	1920
QY	5661	ATTATAACTTAACTGTTCTTGTGATTTGTTGTTGTTGTTGTTGTTG	5720
Db	1921	ATTATAACTTAACTGTTCTTGTGATTTGTTGTTGTTGTTGTTGTTG	1980
QY	5721	GGTGTCTAGGAAGCCATTCTCTGTTGTTGTTGTTGTTGTTGTTGTTG	5780
Db	1981	GGTGTCTAGGAAGCCATTCTCTGTTGTTGTTGTTGTTGTTGTTGTTG	2040
QY	5781	TGGCTACTTCACTGTTAAATGTTGTTGTTGTTGTTGTTGTTGTTGTTG	5840
Db	2041	TGGCTACTTCACTGTTAAATGTTGTTGTTGTTGTTGTTGTTGTTGTTG	2100
QY	5841	TACCAATAATAATAAAAGTGTATTGAGTTAAATAAAATGAGTATG	5900
Db	2101	TACCAATAATAATAAAAGTGTATTGAGTTAAATAAAATGAGTATG	2160
QY	5901	GGATAACTTG	5912
Db	2161	GGATAACTTG	2172

RESULT 3

US-09-966-880A-13

```

Sequence 13, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIORITY FILING DATE: 2001-09-28
; PRIORITY APPLICATION NUMBER: PCT/JP00/01918
; PRIORITY FILING DATE: 2000-03-28
; PRIORITY APPLICATION NUMBER: JP 11-371382
; PRIORITY FILING DATE: 1999-12-27
; PRIORITY APPLICATION NUMBER: JP 11-178999
; PRIORITY FILING DATE: 1999-06-24
; PRIORITY APPLICATION NUMBER: JP 11-87192
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; ORGANISM: Homo sapiens
; SEQ ID NO 13
; LENGTH: 271
; TYPE: DNA
; FEATURE: exon
; LOCATION: (1032)...(1118)
; NAME/KEY: intron
; LOCATION: (1119)...(5514)
; US-09-966-880A-9

Query Match          2.7%; Score 174.2; DB 1; Length 5514;
Best Local Similarity 83.1%; Pred. No. 0.25; Mismatches 40; Indels 0; Gaps 0;
Matches 202; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Query          5012 CTGGGTAGGAGTTGAGACGCCCTGGCCACATGCCAAACCGCTGTACTCAA 5071
Db          5512 CTTGGACGAGGTTGAGACGCCCTGGCCACATGCCAAACCGCTGTACTCAA 5453
Qy          5072 ATCCAAATTAGCCACCGTGCTTCCCGCTACATCTGCACTGGACCTAGACCT 2651
Db          5452 ATACAACATTAGCCGAGTGTTGGTGGCCTGTAATCCGCACTACCGAGGTG 5393
Qy          5132 AGCAGGAGATGCTGAACCCAGGGTGGGGTCACTGAGCTGAGCTGAGCT 5191
Db          5392 AGCGACAGCTTGTGACCCAGGGTGGGGTCACTGAGCTGAGCTGAGCT 5333
Qy          5192 TGCCTCCAGCCCTGGCACAAAGAGCAACTCTGTCAGAAAAAAAGAG 5251
Db          5332 TCCACTCCAGCATGGCACAGACCAAACTCCATCTAA 5273
Qy          5252 AGA 5254
Db          5272 AAA 5270

RESULT 4
US-09-966-880A-9/c
; Sequence 9, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIORITY FILING DATE: 2001-09-28
; PRIORITY APPLICATION NUMBER: PCT/JP00/01918
; PRIORITY FILING DATE: 2000-03-28
; PRIORITY APPLICATION NUMBER: JP 11-371382
; PRIORITY FILING DATE: 1999-12-27
; PRIORITY APPLICATION NUMBER: JP 11-178999
; PRIORITY FILING DATE: 1999-06-24
; PRIORITY APPLICATION NUMBER: JP 11-87192
; PRIORITY FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 5514
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: exon
; LOCATION: (1119)...(5514)
; NAME/KEY: intron
; LOCATION: (1119)...(5514)

Query Match          2.7%; Score 174.2; DB 1; Length 5514;
Best Local Similarity 74.8%; Pred. No. 0.27; Mismatches 40; Indels 0; Gaps 0;
Matches 202; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Query          5012 CTGGGTAGGAGTTGAGACGCCCTGGCCACATGCCAAACCGCTGTACTCAA 5071
Db          5512 CTTGGACGAGGTTGAGACGCCCTGGCCACATGCCAAACCGCTGTACTCAA 5453
Qy          5072 ATCCAAATTAGCCACCGTGCTTCCCGCTACATCTGCACTGGACCTAGACCT 2651
Db          5452 ATACAACATTAGCCGAGTGTTGGTGGCCTGTAATCCGCACTACCGAGGTG 5393
Qy          5132 AGCAGGAGATGCTGAACCCAGGGTGGGGTCACTGAGCTGAGCTGAGCT 5191
Db          5392 AGCGACAGCTTGTGACCCAGGGTGGGGTCACTGAGCTGAGCTGAGCT 5333
Qy          5192 TGCCTCCAGCCCTGGCACAAAGAGCAACTCTGTCAGAAAAAAAGAG 5251
Db          5332 TCCACTCCAGCATGGCACAGACCAAACTCCATCTAA 5273
Qy          5252 AGA 5254
Db          5272 AAA 5270

RESULT 5
US-09-966-880A-9
; Sequence 9, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIORITY FILING DATE: 2001-09-28
; PRIORITY APPLICATION NUMBER: PCT/JP00/01918
; PRIORITY FILING DATE: 2000-03-28
; PRIORITY APPLICATION NUMBER: JP 11-371382
; PRIORITY FILING DATE: 1999-12-27
; PRIORITY APPLICATION NUMBER: JP 11-178999
; PRIORITY FILING DATE: 1999-06-24
; PRIORITY APPLICATION NUMBER: JP 11-87192
; PRIORITY FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 5514
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: exon
; LOCATION: (1119)...(5514)
; NAME/KEY: intron
; LOCATION: (1119)...(5514)

Query Match          2.7%; Score 174.2; DB 1; Length 5514;
Best Local Similarity 74.8%; Pred. No. 0.27; Mismatches 40; Indels 0; Gaps 0;
Matches 202; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Query          5012 CTGGGTAGGAGTTGAGACGCCCTGGCCACATGCCAAACCGCTGTACTCAA 5071
Db          5512 CTTGGACGAGGTTGAGACGCCCTGGCCACATGCCAAACCGCTGTACTCAA 5453
Qy          5072 ATCCAAATTAGCCACCGTGCTTCCCGCTACATCTGCACTGGACCTAGACCT 2651
Db          5452 ATACAACATTAGCCGAGTGTTGGTGGCCTGTAATCCGCACTACCGAGGTG 5393
Qy          5132 AGCAGGAGATGCTGAACCCAGGGTGGGGTCACTGAGCTGAGCTGAGCT 5191
Db          5392 AGCGACAGCTTGTGACCCAGGGTGGGGTCACTGAGCTGAGCTGAGCT 5333
Qy          5192 TGCCTCCAGCCCTGGCACAAAGAGCAACTCTGTCAGAAAAAAAGAG 5251
Db          5332 TCCACTCCAGCATGGCACAGACCAAACTCCATCTAA 5273
Qy          5252 AGA 5254
Db          5272 AAA 5270

```

```

; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; ATTORNEY: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIORITY APPLICATION NUMBER: PCT/JP00/01918
; PRIORITY FILING DATE: 2000-03-28
; PRIORITY APPLICATION NUMBER: JP 11-371382
; PRIORITY FILING DATE: 1999-12-27
; PRIORITY APPLICATION NUMBER: JP 11-178999
; PRIORITY FILING DATE: 1999-06-24
; PRIORITY APPLICATION NUMBER: JP 11-87192
; PRIORITY FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 116
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-14

Query Match 1.8%; Score 116; DB 1; Length 116;
Best Local Similarity 100.0%; Pred. No. 30;
Matches 116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; ATTORNEY: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIORITY APPLICATION NUMBER: PCT/JP00/01918
; PRIORITY FILING DATE: 2000-03-28
; PRIORITY APPLICATION NUMBER: JP 11-371382
; PRIORITY FILING DATE: 1999-12-27
; PRIORITY APPLICATION NUMBER: JP 11-178999
; PRIORITY FILING DATE: 1999-06-24
; PRIORITY APPLICATION NUMBER: JP 11-87192
; PRIORITY FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 148
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-12

Query Match 2.3%; Score 148; DB 1; Length 148;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; ATTORNEY: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIORITY APPLICATION NUMBER: PCT/JP00/01918
; PRIORITY FILING DATE: 2000-03-28
; PRIORITY APPLICATION NUMBER: JP 11-371382
; PRIORITY FILING DATE: 1999-12-27
; PRIORITY APPLICATION NUMBER: JP 11-178999
; PRIORITY FILING DATE: 1999-06-24
; PRIORITY APPLICATION NUMBER: JP 11-87192
; PRIORITY FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 6564
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-10

Query Match 0.5%; Score 34.8; DB 1; Length 6564;
Best Local Similarity 77.8%; Pred. No. 1.5;
Matches 42; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; ATTORNEY: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIORITY APPLICATION NUMBER: PCT/JP00/01918
; PRIORITY FILING DATE: 2000-03-28
; PRIORITY APPLICATION NUMBER: JP 11-371382
; PRIORITY FILING DATE: 1999-12-27
; PRIORITY APPLICATION NUMBER: JP 11-178999
; PRIORITY FILING DATE: 1999-06-24
; PRIORITY APPLICATION NUMBER: JP 11-87192
; PRIORITY FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 3555
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-10

Query Match 0.5%; Score 34.8; DB 1; Length 6564;
Best Local Similarity 77.8%; Pred. No. 1.5;
Matches 42; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; ATTORNEY: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIORITY APPLICATION NUMBER: PCT/JP00/01918
; PRIORITY FILING DATE: 2000-03-28
; PRIORITY APPLICATION NUMBER: JP 11-371382
; PRIORITY FILING DATE: 1999-12-27
; PRIORITY APPLICATION NUMBER: JP 11-178999
; PRIORITY FILING DATE: 1999-06-24
; PRIORITY APPLICATION NUMBER: JP 11-87192
; PRIORITY FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 3555
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-10

RESULT 7
; Sequence 14, Application US/0966880A
US-09-966-880A-14

```


Db 16 CAGGAGTAAAT 4

RESULT 13
US-09-966-880A-11
Sequence 11, Application US/09966880A

GENERAL INFORMATION:

APPLICANT: Honjo, Tasuku

APPLICANT: Muramatsu, Masamichi

TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE

FILE REFERENCE: 0501-088001
CURRENT APPLICATION NUMBER: US/09/966, 880A

PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28

PRIOR APPLICATION NUMBER: JP 11-87192
PRIOR FILING DATE: 1999-03-29

NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 11
LENGTH: 87

ORGANISM: Homo sapiens

US-09-966-880A-11

Query Match 0.2%; Score 15.8; DB 1; Length 87;
Best Local Similarity 65.7%; Pred. No. 1.4e+02;
Matches 23; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 1765 ATGATTAAATTAAATGACTTGTGGCTACCGAGA 1799
DB 9 ATCATTAAATTGAGTGAGTTCTGGCCCTGAGA 43

RESULT 14
US-09-966-880A-12/C

Sequence 12, Application US/09966880A
GENERAL INFORMATION:

APPLICANT: Honjo, Tasuku

APPLICANT: Muramatsu, Masamichi

TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE

FILE REFERENCE: 0501-088001
CURRENT APPLICATION NUMBER: US/09/966, 880A

PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28

PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27

PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24

PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 1999-03-29

NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 12
LENGTH: 87

ORGANISM: Homo sapiens

US-09-966-880A-12

Query Match 0.2%; Score 15.8; DB 1; Length 148;
Best Local Similarity 60.5%; Pred. No. 83;
Matches 26; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 1559 CTGTCGCAAGCAGAACATTAAATGAGAAAACAATGTGTC 1601
DB 58 CTTAGGCCAGCGGACATTTGAATGGTAAGARACTCTC 16

Search completed: March 10, 2004, 13:40:47
Job time : 58.0535 secs

Copyright (c) 1993 - 2004 Compugen Ltd.
GeneCore version 5.1.6

CM nucleic - nucleic search, using sw model
Run on: March 10, 2004, 13:39:36 ; Search time 0.74224 Seconds
(without alignments)
3.483 Million cell updates/sec

Title: US-09-966-880A-11
Perfect score: 87
Sequence: 1 agagaaaccatcattaatgta.....ctggacaccactatggacag 87

Scoring table: IDNITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 7 seqs, 14872 residues

Total number of hits satisfying chosen parameters: 14
Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database : US09966880A.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	87	100.0	87	1 US-09-966-880A-11	Sequence 11, Appl
2	87	100.0	5514	1 US-09-966-880A-9	Sequence 9, Appl
c	17.4	20.0	6564	1 US-09-966-880A-10	Sequence 10, Appl
4	15.8	18.2	6564	1 US-09-966-880A-10	Sequence 10, Appl
5	14.4	16.6	5514	1 US-09-966-880A-15	Sequence 15, Appl
c	6	14.4	5514	1 US-09-966-880A-9	Sequence 9, Appl
c	7	13.4	87	1 US-09-966-880A-11	Sequence 11, Appl
c	8	13.4	2172	1 US-09-966-880A-15	Sequence 15, Appl
c	9	11.6	13.3	271 1 US-09-966-880A-13	Sequence 13, Appl
10	10.4	12.0	148	1 US-09-966-880A-12	Sequence 12, Appl
c	11	10.4	271	1 US-09-966-880A-13	Sequence 13, Appl
c	12	9.8	11.3	1 US-09-966-880A-12	Sequence 12, Appl
c	13	9.6	11.0	1 US-09-966-880A-14	Sequence 14, Appl
c	14	8.4	9.7	1 US-09-966-880A-14	Sequence 14, Appl

ALIGNMENTS

RESULT 1
US-09-966-880A-11
Sequence 11, Application US/09966880A
GENERAL INFORMATION:
APPLICANT: Honjo, Tasuku
APPLICANT: Muramatsu, Masamichi
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 0501-088001
CURRENT APPLICATION NUMBER: US/09/966, 880A
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918

```

; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-11

Query Match          100.0%; Score 87; DB 1; Length 87;
Best Local Similarity 100.0%; Pred. No. 9e-62; 0; Mismatches 0; Indels 0; Gaps 0;
Matches 87; Conservative 0; ; Gaps 0;

Qy      1 AGAGACCATATTATGGAGATTTCTGGCCCTGAGACTTGCGAGGAGGA 60
Db      1 AGAGACCATATTATGGAGATTTCTGGCCCTGAGACTTGCGAGGAGGA 60
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; PRIORITY FILING DATE: 2000-03-28
; PRIORITY FILING DATE: 1999-12-27
; PRIORITY APPLICATION NUMBER: JP 11-371382
; PRIORITY APPLICATION NUMBER: JP 11-178999
; PRIORITY FILING DATE: 1999-06-24
; PRIORITY APPLICATION NUMBER: PCT/JP00/01918
; PRIORITY FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 6564
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-10

RESULT 2
US-09-966-880A-9
; Sequence 9, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masanichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; PRIORITY FILING DATE: 2001-09-28
; PRIORITY APPLICATION NUMBER: PCT/JP00/01918
; PRIORITY FILING DATE: 2000-03-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 5514
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-10

RESULT 3
US-09-966-880A-10/C
; Sequence 10, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masanichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; PRIORITY FILING DATE: 2001-09-28
; PRIORITY APPLICATION NUMBER: PCT/JP00/01918
; PRIORITY FILING DATE: 1999-12-27
; PRIORITY APPLICATION NUMBER: JP 11-178999
; PRIORITY FILING DATE: 1999-06-24
; PRIORITY APPLICATION NUMBER: PCT/JP00/01918
; PRIORITY FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 6564
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-10

RESULT 4
US-09-966-880A-10
Query Match          20.0%; Score 17.4; DB 1; Length 6564;
Best Local Similarity 62.8%; Pred. No. 0.21; 0; Mismatches 16; Indels 0; Gaps 0;
Matches 27; Conservative 0; ; Gaps 0;

Qy      4 GAACCATACTTATGGAGATTTCTGGCCCTGAGACTT 46
Db      543 GAACCATACTTATGGAGATTTCTGGCCCTGAGACTT 501
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; PRIORITY FILING DATE: 2001-09-28
; PRIORITY APPLICATION NUMBER: PCT/JP00/01918
; PRIORITY FILING DATE: 2000-03-28
; PRIORITY APPLICATION NUMBER: JP 11-371382
; PRIORITY FILING DATE: 1999-12-27
; PRIORITY APPLICATION NUMBER: JP 11-178999
; PRIORITY FILING DATE: 1999-06-24
; PRIORITY APPLICATION NUMBER: JP 11-87192
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 6564
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-10

Query Match          100.0%; Score 87; DB 1; Length 5514;
Best Local Similarity 100.0%; Pred. No. 8.8e-58; 0; Mismatches 0; Indels 0; Gaps 0;
Matches 87; Conservative 0; ; Gaps 0;

Qy      1 AGAGACCATATTATGGAGATTTCTGGCCCTGAGACTTGCGAGGAGGA 60
Db      1032 AGAGACCATATTATGGAGATTTCTGGCCCTGAGACTTGCGAGGAGGA 1091
; 61 AGACACTCTGGACACCACTATGGACAG 87
; 1765 ATGATTAAATGATCTTCGGCTACCCGAGA 1799

```

```

RESULT 5
US-09-966-880A-15
; Sequence 15, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasaku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 2172
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-15

RESULT 6
US-09-966-880A-9/c
; Sequence 9, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasaku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-11

RESULT 7
US-09-966-880A-11/c
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasaku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-11

RESULT 8
US-09-966-880A-15/c
; Sequence 15, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasaku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 2172
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-15

Query Match 16.6%; Score 14.4; DB 1; Length 5514;
Best Local Similarity 51.6%; Pred. No. 44; Matches 33; Conservatve 0; Mismatches 31; Indels 0; Gaps 0;

Query Match 15.4%; Score 13.4; DB 1; Length 2172;
Best Local Similarity 52.7%; Pred. No. 11; Matches 33; Conservatve 0; Mismatches 31; Indels 0; Gaps 0;

```

Qy 29; Conservative 0; Mismatches 26; Indels 0; Gaps 0; O; Matches 9

Db 1831 ATGAAATACATGAAGTACAATTACTCTTTACAACTTATGTACATAGA 1777

RESULT 9 US-09-966-880A-13

; Sequence 13, Application US/09966880A

; GENERAL INFORMATION:

; APPLICANT: Honjo, Tasuku

; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE

; FILE REFERENCE: 06501-088001

; CURRENT APPLICATION NUMBER: US/09/966, 880A

; CURRENT FILING DATE: 2001-09-28

; PRIOR APPLICATION NUMBER: PCT/JP00/01918

; PRIOR FILING DATE: 2000-01-28

; PRIOR APPLICATION NUMBER: JP 11-371382

; PRIOR FILING DATE: 1999-12-27

; PRIOR APPLICATION NUMBER: JP 11-178999

; PRIOR FILING DATE: 1999-06-24

; PRIOR APPLICATION NUMBER: JP 11-87192

; PRIOR FILING DATE: 1999-03-29

; NUMBER OF SEQ ID NOS: 36

; SEQ ID NO 13

; LENGTH: 271

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-966-880A-13

Query Match 13.3%; Score 11.6; DB 1; Length 271;

Best Local Similarity 54.8%; Pred. No. 8.7; Mismatches 0; Indels 0; Gaps 0;

Matches 23; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

Qy 36 GCCTGAGACTTGCAAGGAGCAGAACCTCTGGACACCA 77

Db 227 GCGTCACCCGCCGCGTCATAATGCCATCATGACCTCA 268

RESULT 10 US-09-966-880A-12

; Sequence 12, Application US/09966880A

; GENERAL INFORMATION:

; APPLICANT: Honjo, Tasuku

; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE

; FILE REFERENCE: 06501-088001

; CURRENT APPLICATION NUMBER: US/09/966, 880A

; CURRENT FILING DATE: 2001-09-28

; PRIOR APPLICATION NUMBER: PCT/JP00/01918

; PRIOR FILING DATE: 2000-03-28

; PRIOR APPLICATION NUMBER: JP 11-371382

; PRIOR FILING DATE: 1999-12-27

; PRIOR APPLICATION NUMBER: JP 11-178999

; PRIOR FILING DATE: 1999-03-29

; NUMBER OF SEQ ID NOS: 36

; SEQ ID NO 13

; LENGTH: 271

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-966-880A-13

Query Match 12.0%; Score 10.4; DB 1; Length 271;

Best Local Similarity 60.7%; Pred. No. 55; Mismatches 11; Indels 0; Gaps 0;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 35 GGCTGAGACTTGCAAGGAGCAGAACCTCTGGTCTCAGAGAAG 62

Db 213 GGCTCAGCTTCGGTCTCAGAGAAG 186

RESULT 12 US-09-966-880A-12/c

; Sequence 12, Application US/09966880A

; GENERAL INFORMATION:

; APPLICANT: Honjo, Tasuku

; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE

; FILE REFERENCE: 06501-088001

; CURRENT APPLICATION NUMBER: US/09/966, 880A

; CURRENT FILING DATE: 2001-09-28

; PRIOR APPLICATION NUMBER: PCT/JP00/01918

; PRIOR FILING DATE: 2000-03-28

; PRIOR APPLICATION NUMBER: JP 11-371382

; PRIOR FILING DATE: 1999-12-27

; PRIOR APPLICATION NUMBER: JP 11-178999

; PRIOR FILING DATE: 1999-06-24

; PRIOR APPLICATION NUMBER: JP 11-87192

; PRIOR FILING DATE: 1999-03-29

; NUMBER OF SEQ ID NOS: 35

; SEQ ID NO 12

; LENGTH: 148

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-966-880A-12

Query Match 11.3%; Score 9.8; DB 1; Length 148;

Best Local Similarity 66.7%; Pred. No. 56; Mismatches 7; Indels 0; Gaps 0;

Matches 14; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 AGAGAACCTCATTAATGAA 21

Db 138 AGAAACCAAGTCAGTCAA 118

RESULT 13
US-09-966-880A-14
; Sequence 14, Application US/09966880A.

GENERAL INFORMATION:
APPLICANT: Honjo, Tasaku

TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966, 880A

CURRENT FILING DATE: 2001-09-28
PRIORITY APPLICATION NUMBER: PCT/JP00/01918

PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382

PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24

PRIOR APPLICATION NUMBER: JP 11-87192
PRIOR FILING DATE: 1999-03-29

NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 14
LENGTH: 116
TYPE: DNA

ORGANISM: Homo sapiens

US-09-966-880A-14

Query Match 11.0%; Score 9.6; DB 1; length 116;
Best Local Similarity 56.2%; P-Pred. No. 51;
Matches 18; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 45 TTGGAGGAGCAAGAACACTCTGGACCC 76
Db 25 TCTGAGAAACCCGAAAGACCTTCAGGCC 56

RESULT 14
US-09-966-880A-14/C
Sequence 14, Application US/09966880A

GENERAL INFORMATION:
APPLICANT: Honjo, Tasaku
APPLICANT: Muramatsu, Masamichi
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966, 880A

CURRENT FILING DATE: 2001-09-28
PRIORITY APPLICATION NUMBER: PCT/JP00/01918

PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382

PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999

PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192

PRIOR FILING DATE: 1999-03-29

NUMBER OF SEQ ID NOS: 35

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 14
LENGTH: 116
TYPE: DNA

ORGANISM: Homo sapiens

US-09-966-880A-14

Query Match 9.7%; Score 8.4; DB 1; Length 116;
Best Local Similarity 57.7%; P-Pred. No. 1.9e+02;
Matches 15; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 49 AGGAGGCGAAGAACACTCTGGACA 74
Db 113 AAGGATGCCGGAAGCTGTGAGGA 88

RESULT 1
US-09-966-880A-12

Sequence 12, Application US/09966880A

GENERAL INFORMATION:
APPLICANT: Honjo, Tasaku

TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001

CURRENT APPLICATION NUMBER: US/09/966, 880A

CURRENT FILING DATE: 2001-09-28
PRIORITY APPLICATION NUMBER: PCT/JP00/01918

PRIOR FILING DATE: 1999-12-27

Search completed: March 10, 2004, 13:40:47
Job time : 0.74294 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 10, 2004, 13:38:36 ; (without alignments)
3.483 Million cell updates/sec

Title: US-09-966-880A-12
Perfect score: 148
Sequence: 1 cctttgtatggacggagga.....ttggatcttcgcaataag 148

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 7 seqs, 14872 residues

Total number of hits satisfying chosen parameters: 14

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 100%
Listing first 45 summaries

Database : US09966880A.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	148	100.0	148	1	US-09-966-880A-12	Sequence 12, Appl
2	148	100.0	6564	1	US-09-966-880A-10	Sequence 10, Appl
3	18.3	12.4	5514	1	US-09-966-880A-9	Sequence 9, Appl
4	15.8	10.7	6564	1	US-09-966-880A-10	Sequence 10, Appl
5	10.4	5514	1	US-09-966-880A-9	Sequence 9, Appl	
6	10.3	148	1	US-09-966-880A-12	Sequence 12, Appl	
7	14.8	10.0	2172	1	US-09-966-880A-15	Sequence 15, Appl
8	14.8	10.0	2172	1	US-09-966-880A-15	Sequence 15, Appl
9	13.8	9.3	271	1	US-09-966-880A-13	Sequence 13, Appl
10	13.4	9.1	116	1	US-09-966-880A-14	Sequence 14, Appl
11	12.6	8.5	271	1	US-09-966-880A-13	Sequence 13, Appl
12	10.4	7.0	87	1	US-09-966-880A-11	Sequence 11, Appl
13	9.8	6.6	87	1	US-09-966-880A-11	Sequence 11, Appl
14	9	6.1	116	1	US-09-966-880A-14	Sequence 14, Appl

ALIGNMENTS

US-09-966-880A-14

```

; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 12
; LENGTH: 148
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-12

Query Match 100.0%; Score 148; DB 1; Length 148;
Best Local Similarity 100.0%; Pred. No. 1..1; Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Prior Application Number: US/09/966, 880A
Prior Filing Date: 1999-03-29
Current Application Number: JP 11-87192
Prior Application Number: PCT/JPO0/0191B
Prior Filing Date: 2000-01-28
Prior Application Number: JP 11-371382
Prior Filing Date: 1999-12-27
Prior Application Number: JP 11-178999
Prior Filing Date: 1999-06-24
Prior Application Number: JP 11-87192
Prior Filing Date: 2001-09-28
Prior Application Number: PCT/JPO0/0191B
Prior Filing Date: 2000-03-28
Prior Application Number: JP 11-371382
Prior Filing Date: 1999-12-27
Prior Application Number: JP 11-178999
Prior Filing Date: 1999-06-24
Prior Application Number: JP 11-87192
Prior Filing Date: 1999-03-29
Number of SEQ ID NOS: 36
Software: FastSEQ for Windows Version 4.0
Seq ID No: 9
Length: 5514
Type: DNA
Organism: Homo sapiens
Feature: exon
Name/Key: intron
Location: (1)...(1031)
Feature: intron
Name/Key: exon
Location: (1032)...(1118)
Feature: intron
Name/Key: intron
Location: (1119)...(5514)
US-09-966-880A-9

RESULT 2
US-09-966-880A-10
; Sequence 10, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tatsuki
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JPO0/0191B
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 10
; LENGTH: 6564
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-10

Query Match 100.0%; Score 148; DB 1; Length 6564;
Best Local Similarity 100.0%; Pred. No. 0..03; Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Prior Application Number: US/09/966, 880A
Prior Filing Date: 1999-03-29
Current Application Number: JP 11-87192
Prior Application Number: PCT/JPO0/0191B
Prior Filing Date: 2000-03-28
Prior Application Number: JP 11-371382
Prior Filing Date: 1999-12-27
Prior Application Number: JP 11-178999
Prior Filing Date: 1999-06-24
Prior Application Number: JP 11-87192
Prior Filing Date: 1999-03-29
Number of SEQ ID NOS: 36
Software: FastSEQ for Windows Version 4.0
Seq ID No: 10
Length: 6564
Type: DNA
Organism: Homo sapiens
US-09-966-880A-10

RESULT 3
US-09-966-880A-9/C
; Sequence 9, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tatsuki
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JPO0/0191B
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 10
; LENGTH: 6564
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-10

RESULT 4
US-09-966-880A-10/C
; Sequence 10, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tatsuki
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JPO0/0191B
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 10
; LENGTH: 6564
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-10

```

Query Match 10.7%; Score 15.8; DB 1; Length 6564;
 Best Local Similarity 60.5%; Pred. No. 2; Mismatches 17; Indels 0; Gaps 0;

Matches 26; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

Qy 16 GAGGAAGTTTACCAATCAAATGCGCTGGCTAG 58
 Db 1601 GACACATTGTTTACATTAATTTGCTGGACAG 1559

RESULT 5
 US-09-966-880A-9
 ; Sequence 9, Application US/09966880A
 ; GENERAL INFORMATION:
 ; APPLICANT: Honjo, Tasuku
 ; APPLICANT: Muramatsu, Masamichi
 ; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 06501-088001
 CURRENT APPLICATION NUMBER: US/09/966, 880A
 CURRENT FILING DATE: 2001-09-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1999-12-27
 PRIOR APPLICATION NUMBER: JP 11-178999
 PRIOR FILING DATE: 1999-06-24
 PRIOR APPLICATION NUMBER: JP 11-87192
 PRIOR FILING DATE: 1999-03-29
 NUMBER OF SEQ ID NOS: 36
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 9
 LENGTH: 5514

ORGANISM: Homo sapiens

FEATURE:
 NAME/KEY: intron
 LOCATION: (1)...(1031)

FEATURE:
 NAME/KEY: exon
 LOCATION: (1032)...(1118)

FEATURE:
 NAME/KEY: intron
 LOCATION: (1119)...(5514)

US-09-966-880A-9

Query Match 10.4%; Score 15.4; DB 1; Length 5514;
 Best Local Similarity 76.0%; Pred. No. 2.4; Mismatches 6; Indels 0; Gaps 0;

Matches 19; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 69 AGACCTACTGTGCTACTGATGAA 93
 Db 4349 AGACCAAGCTGGGCACACAGTCAA 4373

RESULT 6
 US-09-966-880A-12/c
 ; Sequence 12, Application US/09966880A
 ; GENERAL INFORMATION:
 ; APPLICANT: Honjo, Tasuku
 ; APPLICANT: Muramatsu, Masamichi
 ; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 06501-088001
 CURRENT APPLICATION NUMBER: US/09/966, 880A
 CURRENT FILING DATE: 2001-03-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1999-12-27
 PRIOR APPLICATION NUMBER: JP 11-178999
 PRIOR FILING DATE: 1999-06-24
 PRIOR APPLICATION NUMBER: JP 11-87192
 PRIOR FILING DATE: 1999-03-29
 NUMBER OF SEQ ID NOS: 36
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 15
 LENGTH: 2172

ORGANISM: Homo sapiens

US-09-966-880A-15

Query Match 10.0%; Score 14.8; DB 1; Length 2172;
 Best Local Similarity 56.0%; Pred. No. 5.9; Mismatches 22; Indels 0; Gaps 0;

Matches 28; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

Qy 70 GACCTACTGTGCTACGAGCTGAGACGCCGAGCAGCTACATCCATT 119
 Db 1876 GATTCTCTTCGATATGAAATGGAGCTCAAAAGTCATAATT 1925

RESULT 8
 US-09-966-880A-15/c
 ; Sequence 15, Application US/09966880A
 ; GENERAL INFORMATION:
 ; APPLICANT: Honjo, Tasuku
 ; APPLICANT: Muramatsu, Masamichi
 ; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 06501-088001
 CURRENT APPLICATION NUMBER: US/09/966, 880A
 CURRENT FILING DATE: 2001-03-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1999-12-27
 PRIOR APPLICATION NUMBER: JP 11-178999
 SOFTWARE: FastSEQ for Windows Version 4.0

Query Match 10.3%; Score 15.2; DB 1; Length 148;
 Best Local Similarity 45.2%; Pred. No. 7.8; Mismatches 68; Indels 0; Gaps 0;

Matches 56; Conservative 0; Mismatches 68; Indels 0; Gaps 0;

Qy 24 TCTTACCAATCAATGCGCTGGCTAGGCTCGCGTAGACCTACCTGCT 83
 Db 147 TTATGCCAGATACCAAAAGCCAGTGAAAGGTGACACTGCAACGCTCTCACT 88

Qy 84 ACCTAGTAAAGGGCGTACAGTGTCAATCCTTTCACTGACTGTTGTTGATCTCGCA 143
 Db 87 ACCTGAGCAGGATGGTCTCACGCCGACCCATTGTTGATCTGAA 28

Qy 144 ATAA 147
 Db 27 AGAA 24

RESULT 7
 US-09-966-880A-15
 ; Sequence 15, Application US/09966880A
 ; GENERAL INFORMATION:
 ; APPLICANT: Honjo, Tasuku
 ; APPLICANT: Muramatsu, Masamichi
 ; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 06501-088001
 CURRENT APPLICATION NUMBER: US/09/966, 880A
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1999-12-27
 PRIOR APPLICATION NUMBER: JP 11-178999
 PRIOR FILING DATE: 1999-06-24
 PRIOR APPLICATION NUMBER: JP 11-87192
 PRIOR FILING DATE: 1999-03-29
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 15
 LENGTH: 2172

ORGANISM: Homo sapiens

US-09-966-880A-15

```

; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 2172
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-15

RESULT 9
Query Match 10.0%; Score 14.8; DB 1; Length 2172;
Best Local Similarity 64.7%; Pred. No. 5.9; Matches 22; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
; Sequence 13, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-13

RESULT 9
Query Match 9.3%; Score 13.8; DB 1; Length 271;
Best Local Similarity 49.3%; Pred. No. 45; Matches 36; Conservative 0; Mismatches 37; Indels 0; Gaps 0;
; Sequence 13, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-13

RESULT 10
Query Match 9.3%; Score 13.8; DB 1; Length 271;
Best Local Similarity 49.3%; Pred. No. 45; Matches 36; Conservative 0; Mismatches 37; Indels 0; Gaps 0;
; Sequence 14, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-13

RESULT 11
Query Match 9.1%; Score 13.4; DB 1; Length 116;
Best Local Similarity 46.3%; Pred. No. 1e+02; Matches 44; Conservative 0; Mismatches 51; Indels 0; Gaps 0;
; Sequence 13, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-14

RESULT 12
Query Match 9.1%; Score 13.4; DB 1; Length 116;
Best Local Similarity 46.3%; Pred. No. 1e+02; Matches 44; Conservative 0; Mismatches 51; Indels 0; Gaps 0;
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 116
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-14

```

PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11
Query Match 7.0%; Score 10.4; DB 1; Length 87;
Best Local Similarity 55.6%; Pred. No. 1.5e+02;
Matches 20; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
QY 61 TCGGGGAGACCTACTGTGTTACGAGTAAAGAG 96
Db 17 TTGAATGAGATTTCCTGGCTGAGCTTCAGGG 52
RESULT 13
US-09-966-880A-11/C
Sequence 11, Application US/09966880A
GENERAL INFORMATION:
APPLICANT: Horio, Tasuku
APPLICANT: Muramatsu, Masamichi
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966, 880A
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
PRIOR FILING DATE: 1999-03-29
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 11
LENGTH: 87
TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-11
Query Match 6.6%; Score 9.8; DB 1; Length 87;
Best Local Similarity 66.7%; Pred. No. 1.5e+02;
Matches 14; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
QY 118 TTCACTGGACTTGTGTTCT 138
Db 21 TCAATTATGATGAGTTCT 1
RESULT 14
US-09-966-880A-14
Sequence 14, Application US/09966880A
GENERAL INFORMATION:
APPLICANT: Horio, Tasuku
APPLICANT: Muramatsu, Masamichi
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966, 880A
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 116
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-14
Query Match 6.1%; Score 9; DB 1; Length 116;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 111 CATCCTTTT 119
Db 107 CATCCTTTT 115
Search completed: March 10, 2004, 13:40:47
Job time : 1.26385 secs
Copyright (c) 1993 - 2004 Compugen Ltd.
GenCore version 5.1.6
OM nucleic - nucleic search, using sw model
Run on: March 10, 2004, 13:38:36 ;
Title: US-09-966-880A-13
Perfect score: 271
Sequence: 1 aacggtggcacgtggaa.....agccatcatgaccttcaag 271
Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5
Searched: 7 seqs, 14872 residues
Total number of hits satisfying chosen parameters: 14
Minimum DB seq length: 0
Maximum DB seq length: 200000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
Database : US09966880A.seqd:
Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	271	100.0	271	1 US-09-966-880A-13	Sequence 13, Appl
2	271	100.0	6564	1 US-09-966-880A-10	Sequence 10, Appl
3	20.6	7.6	6564	1 US-09-966-880A-10	Sequence 10, Appl
4	20.2	7.5	271	1 US-09-966-880A-13	Sequence 13, Appl
5	17.6	6.5	5514	1 US-09-966-880A-9	Sequence 9, Appl
6	16	5.9	5514	1 US-09-966-880A-9	Sequence 9, Appl
7	13.8	5.1	148	1 US-09-966-880A-12	Sequence 12, Appl
8	13.4	4.9	2172	1 US-09-966-880A-15	Sequence 15, Appl
9	12.6	4.6	148	1 US-09-966-880A-12	Sequence 12, Appl
10	12	4.4	2172	1 US-09-966-880A-15	Sequence 15, Appl
11	11	4.3	87	1 US-09-966-880A-11	Sequence 11, Appl
12	10.4	3.8	87	1 US-09-966-880A-11	Sequence 11, Appl

Sequence 14, Appl
Sequence 14, Appl

PRIOR FILING DATE: 1999-05-24
PRIOR APPLICATION NUMBER: JP 11-87192
PRIOR FILING DATE: 1999-03-29
NUMBER OF SEQ ID NOS: 36

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 10
LENGTH: 6564

ORGANISM: Homo sapiens
TYPE: DNA

US-09-966-880A-10

Query Match 100.0%; Score 271; DB 1; Length 6564;
Best Local Similarity 100.0%; Pred. No. 0, 0; Mismatches 0; Indels 0; Gaps 0;

Matches 271; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AACGGCTGCCAGTGGAAATGCTCTCCCGCTACATCGGACTGGACACTGAGACCT 60
Db 1 AACGGCTGCCAGTGGAAATGCTCTCCCGCTACATCGGACTGGACACTGAGACCT 60

Qy 61 GGCCTGCTACCGGTCACTGGTGTACACTCCTGGAGCCCTGCTAGGACTGTGGCT 120
Db 61 GGCCTGCTACCGGTCACTGGTGTACACTCCTGGAGCCCTGCTAGGACTGTGGCT 120

Qy 61 GGCCTGCTACCGGTCACTGGTGTACACTCCTGGAGCCCTGCTAGGACTGTGGCT 2711
Db 61 GGCCTGCTACCGGTCACTGGTGTACACTCCTGGAGCCCTGCTAGGACTGTGGCT 2711

Qy 121 CATGGCGCCACTTCTGCGAGGAACCCACCTGAGCTTGAGGATCTACCGCGCGC 180
Db 121 CATGGCGCCACTTCTGCGAGGAACCCACCTGAGCTTGAGGATCTACCGCGCGC 180

Qy 181 CTCTACTCTGTGAGGACCGGAAGGTGACCCCGAGGGGTGCGGGGGTGCACCGGCC 240
Db 181 CTCTACTCTGTGAGGACCGGAAGGTGACCCCGAGGGGTGCGGGGGTGCACCGGCC 2831

Qy 241 GGGGTCAAATAGCTCATGACCTTCAG 271
Db 241 GGGGTCAAATAGCTCATGACCTTCAG 2862

Qy 2832 GGGGTCAAATAGCTCATGACCTTCAG 2862

RESULT 3
US-09-966-880A-10/c

Sequence 10, Application US/0996880A

GENERAL INFORMATION:

APPLICANT: Honjo, Tasuku

TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE

FILE REFERENCE: 06501-088001

CURRENT APPLICATION NUMBER: US/09/966, 880A

CURRENT FILING DATE: 2001-09-28

PRIOR APPLICATION NUMBER: PCT/JP00/01918

PRIOR FILING DATE: 2000-03-28

PRIOR APPLICATION NUMBER: JP 11-371382

PRIOR FILING DATE: 1999-12-27

PRIOR APPLICATION NUMBER: JP 11-178999

PRIOR FILING DATE: 1999-05-24

PRIOR APPLICATION NUMBER: JP 11-87192

PRIOR FILING DATE: 1999-03-29

NUMBER OF SEQ ID NOS: 36

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 10
LENGTH: 6564

ORGANISM: Homo sapiens
TYPE: DNA

US-09-966-880A-13

Query Match 100.0%; Score 271; DB 1; Length 271;
Best Local Similarity 100.0%; Pred. No. 0, 0; Mismatches 0; Indels 0; Gaps 0;

Matches 271; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AACGGCTGCCAGTGGAAATGCTCTCCCGCTACATCGGACTGGACACTGAGACCT 60
Db 1 AACGGCTGCCAGTGGAAATGCTCTCCCGCTACATCGGACTGGACACTGAGACCT 60

Qy 61 GGCCTGCTACCGGTCACTGGTGTACACTCCTGGAGCCCTGCTAGGACTGTGGCT 120
Db 61 GGCCTGCTACCGGTCACTGGTGTACACTCCTGGAGCCCTGCTAGGACTGTGGCT 120

Qy 61 GGCCTGCTACCGGTCACTGGTGTACACTCCTGGAGCCCTGCTAGGACTGTGGCT 2711
Db 61 GGCCTGCTACCGGTCACTGGTGTACACTCCTGGAGCCCTGCTAGGACTGTGGCT 2711

Qy 121 CATGGCGCCACTTCTGCGAGGAACCCACCTGAGCTTGAGGATCTACCGCGCGC 180
Db 121 CATGGCGCCACTTCTGCGAGGAACCCACCTGAGCTTGAGGATCTACCGCGCGC 180

Qy 181 CTCTACTCTGTGAGGACCGGAAGGTGACCCCGAGGGGTGCGGGGGTGCACCGGCC 240
Db 181 CTCTACTCTGTGAGGACCGGAAGGTGACCCCGAGGGGTGCGGGGGTGCACCGGCC 240

Qy 241 GGGGTCAAATAGCTCATGACCTTCAG 271
Db 241 GGGGTCAAATAGCTCATGACCTTCAG 271

RESULT 2
US-09-966-880A-10

Sequence 10, Application US/0996880A

GENERAL INFORMATION:

APPLICANT: Honjo, Tasuku

TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE

FILE REFERENCE: 06501-088001

CURRENT APPLICATION NUMBER: US/09/966, 880A

CURRENT FILING DATE: 2001-09-28

PRIOR APPLICATION NUMBER: PCT/JP00/01918

PRIOR FILING DATE: 2000-03-28

PRIOR APPLICATION NUMBER: JP 11-371382

PRIOR FILING DATE: 1999-12-27

PRIOR APPLICATION NUMBER: JP 11-178999

PRIOR FILING DATE: 1999-05-24

PRIOR APPLICATION NUMBER: JP 11-87192

PRIOR FILING DATE: 1999-03-29

NUMBER OF SEQ ID NOS: 36

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 10
LENGTH: 6564

ORGANISM: Homo sapiens
TYPE: DNA

US-09-966-880A-10

Query Match 7.6%; Score 20.6; DB 1; Length 6564;
Best Local Similarity 51.6%; Pred. No. 1, 8; Mismatches 44; Indels 0; Gaps 0;

Matches 47; Conservative 0; Mismatches 44; Indels 0; Gaps 0;

Qy 173 CCGCGCCCTACTCTGTGAGGACCGGAAGGTGAGCCGGAGGGCTCGGCGCTGC 232
Db 2872 CCTTTGCGACCTTGAGGTGATGCTGTTGACCCCCGGCGGGTGAGCCGCC 2813

Qy 233 ACCGGCCGGGGTGCAGATTAGCCATGACCTGAC 263
Db 2812 AGCCCTGGGCTCAGGCTTGGTCCAC 2782

```

; RESULT 4
; US-09-966-880A-13/c
; Sequence 13, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasaku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIORITY NUMBER: PCT/JPO/01918
; PRIORITY FILING DATE: 2000-03-28
; PRIORITY APPLICATION NUMBER: JP 11-371382
; PRIORITY FILING DATE: 1999-12-27
; PRIORITY APPLICATION NUMBER: JP 11-178999
; PRIORITY FILING DATE: 1999-06-24
; PRIORITY APPLICATION NUMBER: JP 11-87192
; PRIORITY FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-956-880A-13

; RESULT 5
; US-09-956-880A-9/c
; Sequence 9, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasaku
; APPLICANT: Muramatsu, Masanichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIORITY NUMBER: PCT/JPO/01918
; PRIORITY FILING DATE: 2000-03-28
; PRIORITY APPLICATION NUMBER: JP 11-371382
; PRIORITY FILING DATE: 1999-12-27
; PRIORITY APPLICATION NUMBER: JP 11-178999
; PRIORITY FILING DATE: 1999-06-24
; PRIORITY APPLICATION NUMBER: JP 11-87192
; PRIORITY FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 5514
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: intron
; LOCATION: (1119) . . . (5514)
; US-09-956-880A-9

; RESULT 6
; US-09-956-880A-9
; Sequence 9, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasaku
; APPLICANT: Muramatsu, Masanichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIORITY NUMBER: PCT/JPO/01918
; PRIORITY FILING DATE: 2000-03-28
; PRIORITY APPLICATION NUMBER: JP 11-371382
; PRIORITY FILING DATE: 1999-12-27
; PRIORITY APPLICATION NUMBER: JP 11-178999
; PRIORITY FILING DATE: 1999-06-24
; PRIORITY APPLICATION NUMBER: JP 11-87192
; PRIORITY FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 5514
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: exon
; LOCATION: (11032) . . . (1118)
; FEATURE: intron
; NAME/KEY: intron
; LOCATION: (1119) . . . (5514)
; US-09-956-880A-9

; RESULT 7
; US-09-956-880A-12/c
; Sequence 12, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasaku
; APPLICANT: Muramatsu, Masanichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIORITY APPLICATION NUMBER: PCT/JPO/01918
; PRIORITY FILING DATE: 2000-03-28
; PRIORITY APPLICATION NUMBER: JP 11-371382
; PRIORITY FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 5514
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: intron
; LOCATION: (1) . . . (1031)
; FEATURE: exon
; NAME/KEY: exon
; LOCATION: (1032) . . . (1118)
; FEATURE: intron
; NAME/KEY: intron
; LOCATION: (1119) . . . (5514)
; US-09-956-880A-12

```

```

; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 148
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-12

Query Match      5.1%; Score 13.8; DB 1; Length 148;
Best Local Similarity 49.3%; Pred. No. 84; Mismatches 36; Conservative 0; Indels 0; Gaps 0;
Matches 36; Conservat 0; Mismatches 37; Indels 0; Gaps 0;

Qy   132 CTTTCGGCGAGGAACCCAACTCAGTCGGAGNTCTTCAACCGCGCTACTTG 191
Db   148 CTTATTCGGAGATAACCAAGTCCAGTAGCTGACGCTCTCAC 89

Qy   192 TCTGGAGCCGCAG 204
Db   88 TACGTAGGACACGG 76

RESULT 8
US-09-966-880A-15/c
; Sequence 15, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 2172
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-15

Query Match      4.9%; Score 13.4; DB 1; Length 2172;
Best Local Similarity 52.7%; Pred. No. 6; Mismatches 29; Conservative 0; Indels 26; Gaps 0;
Matches 29; Conservat 0; Mismatches 26; Indels 0; Gaps 0;

Qy   33 CTACACCTCGCACTGGGACCTAGACCCCTGGCGCTACCTGGTC 87
Db   361 CTAAAGTCATAGAAACGTTGACCTTGGATGCTCCAGGCTGCA 307

RESULT 9
US-09-966-880A-12
; Sequence 12, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CITIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 2172
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-15

Query Match      4.4%; Score 12.; DB 1; Length 2172;
Best Local Similarity 48.5%; Pred. No. 6.1; Mismatches 33; Conservative 0; Indels 35; Gaps 0;
Matches 33; Conservat 0; Mismatches 33; Indels 35; Gaps 0;

Qy   87 CACCTCTGGAGCCCTCTAGCTGAGCTGTGCCGACATGGCCGACTTCTGGAGAAA 146
Db   522 CTCTCCCTCAGGCCATGATCATAGGACCTCTAATGAGTAATCTGGTGTGAC 581

Qy   147 CCCAAC 154
Db   582 CCCAAC 589

RESULT 11
US-09-966-880A-11
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2001-09-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 148
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-12

Query Match      4.6%; Score 12.6; DB 1; Length 148;
Best Local Similarity 66.7%; Pred. No. 85; Mismatches 18; Conservative 0; Indels 9; Gaps 0;
Matches 18; Conservat 0; Mismatches 19; Indels 9; Gaps 0;

Qy   28 CTCCGCTACATCTGGACTGGAGCCA 54
Db   49 CTGGGCTTAAAGGTGGCGTGAGCCA 75

```

```

; PRIORITY FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

Query Match          4.3%; Score 11.6; DB 1; Length 87;
Best Local Similarity 54.8%; Pred. No. 1.5e+02; Mismatches 0; Indels 0; Gaps 0;
Matches 23; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
Qy      227 GCTGACACGGCCGGAGGTGAAATGCCATCATGACTCA 268
Db      36 GCCTGAGCTTCCAGGGGAGGAGCAGACATCTGACACCA 77

RESULT 12
US-09-966-880A-11/C
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 0501-088001
; CURRENT APPLICATION NUMBER: US/09/ 966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR FILING DATE: 1999-03-29
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

Query Match          3.7%; Score 10; DB 1; Length 116;
Best Local Similarity 52.4%; Pred. No. 1.1e+02; Mismatches 0; Indels 0; Gaps 0;
Matches 22; Conservative 0; Mismatches 20; Indels 0; Gaps 0;
Qy      228 GCTGACACGGCCGGGGGCAATAGCATATGACTCA 269
Db      69 GCACCCCTCCAGGCTTGAAAGTTCTTCGIGGTTCTA 28

RESULT 14
US-09-966-880A-14
; Sequence 14, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 0601-088001
; CURRENT APPLICATION NUMBER: US/09/ 966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 116
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-14

Query Match          3.7%; Score 10; DB 1; Length 116;
Best Local Similarity 52.4%; Pred. No. 1.1e+02; Mismatches 0; Indels 0; Gaps 0;
Matches 22; Conservative 0; Mismatches 20; Indels 0; Gaps 0;
Qy      228 GCTGACACGGCCGGGGGCAATAGCATATGACTCA 269
Db      69 GCACCCCTCCAGGCTTGAAAGTTCTTCGIGGTTCTA 28

RESULT 13
US-09-966-880A-14/C
; Sequence 14, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 0601-088001
; CURRENT APPLICATION NUMBER: US/09/ 966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

Query Match          3.8%; Score 10.4; DB 1; Length 87;
Best Local Similarity 60.7%; Pred. No. 1.5e+02; Mismatches 11; Indels 0; Gaps 0;
Matches 17; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
Qy      186 CTCTGTGAGGAAGGAGCTGAGGCC 213
Db      62 CCTCTGCCCCCTGCAACTCTAGGCC 35

RESULT 13
US-09-966-880A-14
Copyright (c) 1993 - 2004 Compugen Ltd.
OM nucleic - nucleic search, using sw model
Run on: March 10, 2004, 13:38:36 ; Search time 0.99056 Seconds
Title: US-09-966-880A-14
Sequence: 1 attatttactgtggaat.....agcttcggccatctttg 116

```

Scoring table:

IDENTITY_NUC

Gapop 10.0 , Gapext 0.5

Searched:

7 seqs, 14872 residues

Total number of hits satisfying chosen parameters:

14

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing:

Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

US09966880A.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	116	100.0	116	1	US-09-966-880A-14
2	115	100.0	6564	1	US-09-966-880A-10
3	17	14.7	6564	1	US-09-966-880A-10
4	16.2	14.0	5514	1	US-09-966-880A-9
5	15	13.8	2172	1	US-09-966-880A-15
6	14.8	12.8	5514	1	US-09-966-880A-9
7	13.8	11.9	2172	1	US-09-966-880A-15
8	13.4	11.6	148	1	US-09-966-880A-12
9	10.8	9.3	116	1	US-09-966-880A-14
10	8.6	8.6	271	1	US-09-966-880A-13
11	8.3	8.3	87	1	US-09-966-880A-11
12	9	7.8	148	1	US-09-966-880A-12
13	8.8	7.6	271	1	US-09-966-880A-13
c	8.4	7.2	87	1	US-09-966-880A-11

ALIGNMENTS

RESULT 1
US-09-966-880A-14
Sequence 14 Application US/09966880A
GENERAL INFORMATION:
APPLICANT: Honjo, Tasuku
APPLICANT: Muramatsu, Masamichi
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966, 880A.
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
PRIOR FILING DATE: 1999-03-29
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 14
LENGTH: 116
TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-14

Query Match 100.0%; Score 116; DB 1; Length 116;
Best Local Similarity 100.0%; Pred. No. 1.2; Mismatches 0; Indels 0; Gaps 0;

RESULT 2
US-09-966-880A-10
Sequence 10, Application US/09966880A
GENERAL INFORMATION:
APPLICANT: Honjo, Tasuku
APPLICANT: Muramatsu, Masamichi
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966, 880A.
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
PRIOR FILING DATE: 1999-03-29
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 10
LENGTH: 6564
TYPE: DNA
ORGANISM: Homo sapiens

Query Match 100.0%; Score 116; DB 1; Length 116;
Best Local Similarity 100.0%; Pred. No. 1.2; Mismatches 0; Indels 0; Gaps 0;

US-09-966-880A-10

Query Match 14.7%; Score 17; DB 1; Length 6564;
 Best Local Similarity 52.1%; Pred. No. 1.9;
 Matches 38; Conservative 0; Mismatches 35; Indels 0; Gaps 0;
 APPLICANT: Horio, Tasuku
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 0601-098001
 CURRENT FILING DATE: 2001-09-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 1999-06-24
 PRIOR APPLICATION NUMBER: JP 11-178999
 PRIOR FILING DATE: 1999-03-29
 NUMBER OF SEQ ID NOS: 36
 SEQ ID NO 15
 LENGTH: 2172
 TYPE: DNA
 ORGANISM: Homo sapiens

RESULT 4

US-09-966-880A-9
 Sequence 9, Application US/09966880A
 GENERAL INFORMATION:

APPLICANT: Horio, Tasuku
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 0601-098001
 CURRENT FILING DATE: US/09/966, 880A
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1999-12-27
 PRIOR APPLICATION NUMBER: JP 11-178999
 PRIOR FILING DATE: 1999-06-24
 PRIOR APPLICATION NUMBER: JP 11-87192
 NUMBER OF SEQ ID NOS: 35
 SEQ ID NO 9
 LENGTH: 5514

SOFTWARE: FastSEQ for Windows Version 4.0
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: intron
 LOCATION: (1)...(1031)
 FEATURE:
 NAME/KEY: exon
 LOCATION: (1032)...(1118)
 FEATURE:
 NAME/KEY: intron
 LOCATION: (1119)...(5514)

US-09-966-880A-9
 Sequence 9, Application US/09966880A
 GENERAL INFORMATION:

APPLICANT: Muramatsu, Masamichi
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 0601-098001
 CURRENT FILING DATE: 2001-09-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 1999-12-27
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1999-03-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 1999-06-24
 PRIOR APPLICATION NUMBER: JP 11-87192
 NUMBER OF SEQ ID NOS: 36
 SEQ ID NO 3105
 LENGTH: 2172
 TYPE: DNA
 ORGANISM: Homo sapiens

RESULT 6

US-09-966-880A-9/C
 Sequence 9, Application US/09966880A
 GENERAL INFORMATION:

APPLICANT: Horio, Tasuku
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 0601-098001
 CURRENT FILING DATE: US/09/966, 880A
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1999-12-27
 PRIOR APPLICATION NUMBER: JP 11-178999
 PRIOR APPLICATION NUMBER: JP 11-87192
 PRIOR FILING DATE: 1999-03-29
 NUMBER OF SEQ ID NOS: 35
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 9
 LENGTH: 5514

TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: intron
 LOCATION: (1)...(1031)
 FEATURE:
 NAME/KEY: exon
 LOCATION: (1032)...(1118)
 FEATURE:
 NAME/KEY: intron
 LOCATION: (1119)...(5514)

US-09-966-880A-9
 Sequence 9, Application US/09966880A
 GENERAL INFORMATION:

APPLICANT: Muramatsu, Masamichi
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 0601-098001
 CURRENT FILING DATE: US/09/966, 880A
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 1999-12-27
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1999-03-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 1999-06-24
 PRIOR APPLICATION NUMBER: JP 11-87192
 NUMBER OF SEQ ID NOS: 36
 SEQ ID NO 4495
 LENGTH: 2172
 TYPE: DNA
 ORGANISM: Homo sapiens

RESULT 5

US-09-966-880A-15/C
 Sequence 15, Application US/09966880A
 GENERAL INFORMATION:

APPLICANT: Horio, Tasuku
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 0601-098001
 CURRENT FILING DATE: 2001-09-28

Query Match 12.8%; Score 14.8; DB 1; Length 5514;
 Best Local Similarity 59.5%; Pred. No. 2.4;
 Matches 25; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

APPLICANT: Muramatsu, Masamichi
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 0601-098001
 CURRENT FILING DATE: 2001-09-28

Query Match 16.2%; Score 17; DB 1; Length 5514;
 Best Local Similarity 59.5%; Pred. No. 2.4;
 Matches 25; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
 APPLICANT: Horio, Tasuku
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 0601-098001
 CURRENT FILING DATE: 2001-09-28

Query Match 12.8%; Score 14.8; DB 1; Length 5514;
 Best Local Similarity 59.5%; Pred. No. 2.4;
 Matches 25; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

APPLICANT: Muramatsu, Masamichi
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 0601-098001
 CURRENT FILING DATE: 2001-09-28

```

RESULT 7 US-09-966-880A-15
US-09-966-880A Application US/09966880A
; Sequence 15, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; MURAMATSU, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 2172
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-15

Query Match 11.9%; Score 13.8; DB 1; Length 2172;
Best Local Similarity 63.6%; Pred. No. 5.9;
Matches 21; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
QY 51 AAAGCCCTGGAGGGCTGCAATTAACGTT 83
Db 1545 AAGGATGGGAGCATGCAAGGAAATTGCT 1577

RESULT 8 US-09-966-880A-12/c
US-09-966-880A Application US/09966880A
; Sequence 12, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; MURAMATSU, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 116
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-14

Query Match 9.3%; Score 10.8; DB 1; Length 116;
Best Local Similarity 60.0%; Pred. No. 1e+02;
Matches 18; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
QY 18 AATACTTGTAGAACACAGAAAGCT 47
Db 47 AGTCCTTGCTGTTTCTACAAAGT 18

RESULT 9 US-09-966-880A-14/c
US-09-966-880A Application US/09966880A
; Sequence 14, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; MURAMATSU, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 116
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-13

Query Match 8.6%; Score 10; DB 1; Length 271;
Best Local Similarity 52.4%; Pred. No. 48;
Matches 22; Conservative 0; Mismatches 20; Indels 0; Gaps 0;
QY 22 CTTTGTGAGAACACGAAAGACTTCAAGCTGGAGGGCTGCAATTAACGTT 81
Db 148 CTTATGGAGATAACCAAGTCAGTGAAGAGGTGAGACTGTCACCGCTTCAC 89
QY 82 TGGTCCTCCAGACAGTTGGCGATCCTTTG 115
Db 88 TAGTAGCACAGCTAGGCTCACGCCGACCTAG 54

RESULT 11 US-09-966-880A-11
US-09-966-880A Application US/09966880A
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; MURAMATSU, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-12

```

```

; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIORITY FILING DATE: 2000-03-28
; PRIORITY APPLICATION NUMBER: PCT/JP00/01918
; PRIORITY FILING DATE: 1999-03-29
; PRIORITY APPLICATION NUMBER: JP 11-371382
; PRIORITY FILING DATE: 1999-12-27
; PRIORITY APPLICATION NUMBER: JP 11-178999
; PRIORITY FILING DATE: 1999-06-24
; PRIORITY APPLICATION NUMBER: JP 11-87192
; PRIORITY FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

Query Match          8.3%; Score 9.6; DB 1; Length 87;
Best Local Similarity 56.2%; Pred. No. 1.4e+02; Matches 18; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
Qy      25 TGTAGGAAACCGAAAGACTTCAAGCC 56
Db      45 TGGCAGGGAGGAAGACACTCTGGACACC 76

RESULT 12
US-09-966-880A-12
; Sequence 12, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 0501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-05-28
; PRIORITY APPLICATION NUMBER: PCT/JP00/01918
; PRIORITY FILING DATE: 2000-03-28
; PRIORITY APPLICATION NUMBER: JP 11-371382
; PRIORITY FILING DATE: 1999-12-27
; PRIORITY APPLICATION NUMBER: JP 11-178999
; PRIORITY FILING DATE: 1999-06-24
; PRIORITY APPLICATION NUMBER: JP 11-87192
; PRIORITY FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 148
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-12

Query Match          7.8%; Score 9; DB 1; Length 148;
Best Local Similarity 100.0%; Pred. No. 87; Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy      107 CATCCTTT 115
Db      111 CATCCTTT 119

RESULT 13
US-09-966-880A-13
; Sequence 13, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIORITY FILING DATE: 2000-03-28
; PRIORITY APPLICATION NUMBER: PCT/JP00/01918
; PRIORITY FILING DATE: 1999-12-27
; PRIORITY APPLICATION NUMBER: JP 11-371382
; PRIORITY FILING DATE: 1999-06-24
; PRIORITY APPLICATION NUMBER: JP 11-178999
; PRIORITY FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-13

Query Match          7.6%; Score 8.8; DB 1; Length 271;
Best Local Similarity 57.1%; Pred. No. 50; Matches 16; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
Qy      27 GAGAACCCACAAGAGACTTCAG 54
Db      244 GTGCCATTAGCCATCATGACCTTCAG 271

RESULT 14
US-09-966-880A-11/c
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 0501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIORITY APPLICATION NUMBER: PCT/JP00/01918
; PRIORITY FILING DATE: 2000-03-28
; PRIORITY APPLICATION NUMBER: JP 11-371382
; PRIORITY FILING DATE: 1999-12-27
; PRIORITY APPLICATION NUMBER: JP 11-178999
; PRIORITY FILING DATE: 1999-06-24
; PRIORITY APPLICATION NUMBER: JP 11-87192
; PRIORITY FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

Query Match          7.2%; Score 8.4; DB 1; Length 87;
Best Local Similarity 57.7%; Pred. No. 1.5e+02; Matches 15; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
Qy      88 TCTCAGAGACGCTTGGGCCATCTT 113
Db      74 TGTCAGAGTGCTCTGCCTCTCCT 49

Search completed: March 10, 2004, 13:40:48
Job time : 0.990586 secs

Copyright (c) 1993 - 2004 Compugen Ltd.
Gencore version 5.1.6
OM nucleic - nucleic search, using bw model

```



```

RESULT 2
US-09-966-880A-10
; Sequence 10, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Horjo, Tasuku
; APPLICANT: Muramatsu, Masanichi
; TITLE OF INVENTION: NOVEL CYTIDINE DERMINASE
; FILE REFERENCE: 06501-08001
; CURRENT APPLICATION NUMBER: US/09/ 966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIORITY APPLICATION NUMBER: PCT/JP00/01918
; PRIORITY FILING DATE: 2000-03-28
; PRIORITY APPLICATION NUMBER: JP 11-371382
; PRIORITY FILING DATE: 1999-12-27
; PRIORITY APPLICATION NUMBER: JP 11-178999
; PRIORITY FILING DATE: 1999-06-24
; PRIORITY APPLICATION NUMBER: JP 11-87192
; PRIORITY FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 6564
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-10

Query Match          100 %; Score 217; DB 1; Length 6564;
Best Local Similarity    100.0%; Pred. No. 2.8e-58; Matches 217;
Matches 217; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Db      3741 CCCTGTATGAGGTGAGCTACAGAGACGATTGTACTTGGACTTGATGCAA 3800
Qy      61 CTTCAGGAATGCAACAGATGAAATCTCTGCGAAGACAGCTGATAAAAAGT 120
Db      3801 CCTCCAGGAATGCAACAGATGAAATCTCTGCGAAGACAGCTGATAAAAAGT 3860
Qy      121 CCTCTTCAACTCTCTCTGTTTATTCTCACTCTCCTCTAGGTTACAGAAA 180
Db      3861 CCTCTCAACTCTCTCTGTTTATTCTCACTCTCCTCTAGGTTACAGAAA 3920
Qy      181 ATTTATATAGCACTTTAAAGATCTATGCTGAAATAGAGGAGAACACAGT 240
Db      3921 ATATTATATAGCACTCTTAAAGATCTATGCTGAAATAGAGGAGAACACAGT 3980
Qy      241 CTGGCAGGACTCTGCGCAATGGCAGCTTGATGCAACATGTCCTCCACTGGAA 300
Db      3981 CTGGCAGGACTCTGCGCAATGGCAGCTTGATGCAACATGTCCTCCACTGGAA 4040
Qy      301 ATTAACAGAACTGCGGAGCTGGAGCATCTAAAGTGTCAACGTTTCTATGCTTTA 360
Db      4041 ATTAACAGAACTGCGGAGCTGGAGCATCTAAAGTGTCAACGTTTCTATGCTTTA 4100
Qy      361 GGTTAGGATGAGGAGGATGATCTAAAGAATGCTGAGGAGGATCAATGTTTA 420
Db      4101 GGTTAGGATGAGGAGGATGATCTAAAGAATGCTGAGGAGGATCAATGTTTA 4160
Qy      421 TATCACACCTTTTATTTGATTGATTGATTCAGTGTAACTGCTGTTGTTGATGATT 480

```

Db	TATCACACATCCTTATTATTGATTCACTTGAGTTAACAGTGGTGTAGTAGATT	4161	4220
Qy	TCTATCTTCTCCCTGAGTTCTTCAGAACRAACTCTTCATCGGCCCTGA	481	540
Db	TCTATCTCTTCCCTGAGTTCTTCAGAACRAACTCTTCATCGGCCCTGA	4221	4280
Qy	TCTATAGGACTCTTAATGAGAGTATCTGGTATGTCACCAACCATCTCAA	541	600
Db	TCTATAGGACTCTTAATGAGAGTATCTGGTATGTCACCAACCATCTCAA	4281	4340
Qy	GCAATTAAATCCTAACATCGCTGATGTTTATCAGAGAACCTTCATCTCAA	601	660
Db	GCAATTAAATCCTAACATCGCTGATGTTTATCAGAGAACCTTCATCTCAA	4341	4400
Qy	TACAAAGAGAGATTTATGGCTGGGTAGTTAATCAGAGAACCTTCATCTCAA	661	720
Db	TACAAAGAGAGATTTATGGCTGGGTAGTTAATCAGAGAACCTTCATCTCAA	4401	4460
Qy	GGCTACTTAAATAGATCTTAAATGGCAAGGAGCTGAGCACACCTATAA	721	780
Db	GGCTACTTAAATAGATCTTAAATGGCAAGGAGCTGAGCACACCTATAA	4461	4520
Qy	TGGGTGAGCTGAGTGTGAGTACGAACTCTGAGAACGAACTTTAAGRAGCCT	781	840
Db	TGGGTGAGCTGAGTGTGAGTACGAACTCTGAGAACGAACTTTAAGRAGCCT	4521	4580
Qy	AATTAGAACACCAACACTCACATCTTAAATAGAACAACTTAAAGGAAGTG	841	900
Db	AATTAGAACACCAACACTCACATCTTAAATAGAACAACTTAAAGGAAGTG	4581	4640
Qy	CITGAATGTTGGAGAGGAAATCTATCGCTCTCGTGGCTCTCACCTAGAAATG	901	960
Db	CITGAATGTTGGAGAGGAAATCTATCGCTCTCGTGGCTCTCACCTAGAAATG	4641	4700
Qy	CCAACTAGGTAAGTTCTACATTGTTGATGCTTCCAAAGGTAT	961	1020
Db	CCAACTAGGTAAGTTCTACATTGTTGATGCTTCCAAAGGTAT	4701	4760
Qy	TAACATATAGAGAGTTGTCACAAACAGATGATAAAGCTGGAACCGTGCACCC	1021	1080
Db	TAACATATAGAGAGTTGTCACAAACAGATGATAAAGCTGGAACCGTGCACCC	4761	4820
Qy	TCATAGTCTAGCTCTGGAGGTGCTGAACTGACACAAGTGTCA	1081	1140
Db	TCATAGTCTAGCTCTGGAGGTGCTGAACTGACACAAGTGTCA	4821	4880
Qy	GCCGAGCCTGGCAACATAACAGATCCCTCTCAAAAAAAAAAAAAAAGAAA	1141	1200
Db	GCCGAGCCTGGCAACATAACAGATCCCTCTCAAAAAAAAAAAAAAAGAAA	4881	4940
Qy	GAGAGAGGGGGGGTGCTGAGCTAACCTGTCCTCAAAAAAAAGAAA	1201	1260
Db	GAGAGAGGGGGGGTGCTGAGCTAACCTGTCCTCAAAAAAAAGAAA	4941	5000
Qy	GAGAGAGGGGGGGTGCTGAGCTAACCTGTCCTCAAAAAAAAGAAA	1261	1320
Db	GAGAGAGGGGGGGTGCTGAGCTAACCTGTCCTCAAAAAAAAGAAA	5001	5060
Qy	CTGACTCAATGCAAATTAGCAGGGTGTAGCAGGCCCTGTAATCCCAGTC	1321	1380
Db	CTGACTCAATGCAAATTAGCAGGGTGTAGCAGGCCCTGTAATCCCAGTC	5061	5120
Qy	TGGGAGGCTGAGGAGGATCCTGAAACCAGGAGGTGGAGGTGAGCTGA	1381	1440
Db	TGGGAGGCTGAGGAGGATCCTGAAACCAGGAGGTGGAGGTGAGCTGA	5121	5180
Qy	TGGGGCTGAGGAGGAGGATCTGAACTGGCTGGCTGGCTGGCTGGCTGG	1441	1500
Db	TGGGGCTGAGGAGGAGGATCTGAACTGGCTGGCTGGCTGGCTGGCTGG	5181	5240
Qy	AAAAGAGAGAGAGAGAGAGAAACATATTGGAGAGAGGTGGAGAGCAT	1501	1560
Db	AAAAGAGAGAGAGAGAGAGAAACATATTGGAGAGAGGTGGAGAGCAT	5241	5300

RESULT 3

US-09-966-880A.9/c

Sequence 9, Application US/09966880A

GENERAL INFORMATION:

APPLICANT: Honjo, Tatsuki

TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE

FILE REFERENCE: 06501-088001

CURRENT APPLICATION NUMBER: US/09/966, 880A

PRIORITY FILING NUMBER: PCT/JP00/01918

PRIORITY FILING DATE: 2000-01-28

PRIORITY APPLICATION NUMBER: JP 11-371382

PRIORITY FILING DATE: 1999-12-27

PRIORITY APPLICATION NUMBER: JP 11-178999

PRIORITY FILING DATE: 1999-06-24

PRIORITY APPLICATION NUMBER: JP 11-87192

PRIORITY FILING DATE: 1999-01-29

NUMBER OF SEQ ID NOS: 36

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 9

LENGTH: 5514

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE: intron

LOCATION: (1)...(1031)

Qy	TGCAAGGAATTGIGCTTATCCACAAATGAGGCCATTAGGATCCTATTG	1561	1620
Db	TCCAGGAATTGICCTTCTCCACAAATGAGGCCATTAGGATCCTATTG	5301	5360

Qy	TCTCTTGGTCTTATGCTTCCAACTGCTTTCAGCTGAGAAATTATCAGA	1621	1680
Db	TCTCTTGGTCTTATGCTTCCAACTGCTTTCAGCTGAGAAATTATCAGA	5361	5420

Qy	ATACCATATCCTGCGCTTATACCTAGAACCTTCATGAGCTTGTAGTC	1681	1740
Db	ATACCATATCCTGCGCTTATACCTAGAACCTTCATGAGCTTGTAGTC	5421	5480

Qy	AGAGAAACTGAACTGCAACTGCTTATTTAATCTTATGTCATAGTTGTA	1741	1800
Db	AGAGAAACTGAACTGCAACTGCTTATTTAATCTTATGTCATAGTTGTA	5481	5540

Qy	AGAGTAAMATGTTACTCATGTTATTATATTATATTTGCGCTTAAG	1801	1860
Db	AGAGTAAMATGTTACTCATGTTATTATATTATATTTGCGCTTAAG	5541	5600

Qy	ATTTATACATGTTCTTCTTATATGAACTTATGAACTTATGTCATAGTTG	1861	1920
Db	ATTTATACATGTTCTTCTTATATGAACTTATGAACTTATGTCATAGTTG	5601	5660

Qy	GGCTTACGGCATTCCTGTGATTGAACTTATGAACTTATGTCATAGTTG	1921	1980
Db	GGCTTACGGCATTCCTGTGATTGAACTTATGAACTTATGTCATAGTTG	5661	5720

Qy	GGCTTACGGCATTCCTGTGATTGAACTTATGAACTTATGTCATAGTTG	1981	2040
Db	GGCTTACGGCATTCCTGTGATTGAACTTATGAACTTATGTCATAGTTG	5721	5780

Qy	TGCTTACCTTCATGTTAAATGAACTTATGAACTTATGTCATAGTTG	2041	2100
Db	TGCTTACCTTCATGTTAAATGAACTTATGAACTTATGTCATAGTTG	5781	5840

Qy	TACAAATTAATATATAAAGCTTATAGAGTTAAATAAATTTGGAGCTGCTA	2101	2160
Db	TACAAATTAATATATAAAGCTTATAGAGTTAAATAAATCTGAGTAAATCACTATG	5841	5900

Qy	GGATAACTTG 2172	2161	2172
Db	GGATAACTTG 5912	5901	5912

```

; FEATURE: exon
; NAME/KEY: exon
; LOCATION: (1032) ... (1118)
; FEATURE: intron
; NAME/KEY: intron
; LOCATION: (1119) ... (5514)
; US-09-966-880A-9

Query Match          8.2%; Score 178.6; DB 1; Length 5514;
Best Local Similarity 83.1%; Pred. No. 0.12; Mismatches 1; Indels 0; Gaps 0;
Matches 202; Conservative 40; Indels 0; Gaps 0;

QY  1272 CTGTTGTCAGGAGTTGAGACCAACGGCTTGCCAAACCGGTGACTCAA 1331
Db  5512 CTGAGGTTCAGGAGTTGAGACCAACGGCTTGCCAAACCGTACTAA 5453
QY  1332 ATGCAAAATATGCCAGGGCAGGTTGAGACCAACGGCTTGCCAAACCGTACTAA 1391
Db  5452 ATACAAACATTAGCCAGGCTGGGCTGTAATCCCATCACCGGGAGCTG 5393
QY  1392 AGCCAGGAGATGCTGAACCCAGGAGGAGGAGGTGCACTGAGTCTGCCT 1451
Db  5392 AGGCAGACAGCTTGCTGAAACCAGGAGGAGGTGCACTGAGTCTGCCT 5333
QY  1452 TGCCTCAGGCTGGGGACAGAGAGACTCTGCTCAGAAACCTCTAA 5273
Db  5332 TCCACTCAGCATGGGACAGAGACCAACCTCTAA 5273

Qy  1512 AGA 1514
Db  5272 AAA 5270

RESULT 4
US-09-966-880A-9
; Sequence 9, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 0501-088001
CURRENT APPLICATION NUMBER: US/09/966, 880A
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-03-29
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 10
LENGTH: 6564
TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-10

Query Match          1.4%; Score 29.4; DB 1; Length 6564;
Best Local Similarity 56.8%; Pred. No. 1.9; Mismatches 41; Indels 0; Gaps 0;
Matches 54; Conservative 54; Indels 0; Gaps 0;

QY  1495 AAAAAAAAAGAGAGAGAGAGAGACATAATTGGAGAGAGAGGG 1554
Db  3489 AAACACAAAGAGAGAGAGAGAGAGACCTAGAGAGCCCTCTGAATGGT 3430
QY  1555 AAGCTTGCAAGGAATGTGCTTATCAACAA 1589
Db  3429 AAACAGCAGAGAAAGCTGATGIGGGAGAA 3395

RESULT 6
US-09-966-880A-15/C
; Sequence 15, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 0501-088001
CURRENT APPLICATION NUMBER: US/09/966, 880A
CURRENT FILING DATE: 2001-09-28

```

APPLICANT: Muramatsu, Masamichi
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 06501-088001
 CURRENT APPLICATION NUMBER: US/09/966,880A
 CURRENT FILING DATE: 2001-09-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1999-12-27
 NUMBER OF SEQ ID NOS: 36
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 15
 LENGTH: 2172
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-966-880A-15

Query Match 1.2%; Score 26; DB 1; Length 2172;
 Best Local Similarity 59.5%; Pred. No. 5.7; Mismatches 0; Indels 0; Gaps 0;
 Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1775 ATCTTATGACAGTTGAAAGAGTAAATGTTACTCTGTATCATT 1834
 Db 1848 AATAATATAAAATAATGATACTGAGTAACATTAACTCTTACAACCA 1789

QY 1835 TATTTATATTATT 1848
 Db 1788 TGTACATTAAGATT 1775

RESULT 7
 US-09-966-880A-14/c
 ; Sequence 14, Application US/09966880A
 ; GENERAL INFORMATION:
 ; APPLICANT: Honjo, Tasuku
 ; APPLICANT: Muramatsu, Masamichi
 ; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 ; FILE REFERENCE: 06501-088001
 ; CURRENT APPLICATION NUMBER: US/09/966,880A
 ; CURRENT FILING DATE: 2001-09-28
 ; PRIOR APPLICATION NUMBER: PCT/JP00/01918
 ; PRIOR FILING DATE: 2000-03-28
 ; PRIOR APPLICATION NUMBER: JP 11-371382
 ; PRIOR FILING DATE: 1999-12-27
 ; PRIOR APPLICATION NUMBER: JP 11-178999
 ; PRIOR FILING DATE: 1999-06-24
 ; PRIOR APPLICATION NUMBER: JP 11-87192
 ; PRIOR FILING DATE: 1999-03-29
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 14
 ; LENGTH: 116
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-966-880A-14

Query Match 0.7%; Score 16; DB 1; Length 116;
 Best Local Similarity 50.0%; Pred. No. 26; Mismatches 40; Indels 0; Gaps 0;
 Matches 40; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

QY 1953 AGCTTATGAACTGGTACATTCGAGTATGGCTGAGGCATTCTCTGATTTAG 2012
 Db 86 AGCACTGAATTTCTGAGCCCTCCAGGCTTGAAGCTCTCGGGTTCTAC 27

QY 2013 TAACTTTTACACCAA 2032
 Db 26 AAAAGTATTCAGCAGTAA 7

RESULT 8
 US-09-966-880A-12
 ; Sequence 12, Application US/09966880A
 ; GENERAL INFORMATION:
 ; APPLICANT: Honjo, Tasuku
 ; APPLICANT: Muramatsu, Masamichi
 ; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 ; FILE REFERENCE: 06501-088001

Query Match 0.7%; Score 14.8; DB 1; Length 148;
 Best Local Similarity 64.7%; Pred. No. 35; Mismatches 22; Indels 0; Gaps 0;
 Matches 22; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 1523 AAGAGAACATATTGGAGAGAGGAGGGAAA 1556
 Db 139 AAGATAACCAAGTCCAGTGAAAGGTTGCA 106

RESULT 9
 US-09-966-880A-12/c
 ; Sequence 12, Application US/09966880A
 ; GENERAL INFORMATION:
 ; APPLICANT: Honjo, Tasuku
 ; APPLICANT: Muramatsu, Masamichi
 ; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 ; FILE REFERENCE: 06501-088001
 ; CURRENT APPLICATION NUMBER: US/09/966,880A
 ; CURRENT FILING DATE: 2001-09-28
 ; PRIOR APPLICATION NUMBER: PCT/JP00/01918
 ; PRIOR FILING DATE: 2000-03-28
 ; PRIOR APPLICATION NUMBER: JP 11-371382
 ; PRIOR FILING DATE: 1999-12-27
 ; PRIOR APPLICATION NUMBER: JP 11-178999
 ; PRIOR FILING DATE: 1999-06-24
 ; PRIOR APPLICATION NUMBER: JP 11-87192
 ; PRIOR FILING DATE: 1999-03-29
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 12
 ; LENGTH: 148
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-966-880A-12

Query Match 0.7%; Score 14.8; DB 1; Length 148;
 Best Local Similarity 56.0%; Pred. No. 35; Mismatches 28; Indels 0; Gaps 0;
 Matches 28; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 1876 GATTCCTTCTGATATGAAATGGAGTCAGTCAGCTCATATT 1925
 Db 70 GACCTACCTGCTACCTAGTCAGAGCCGAGACGTGCTACATCCTT 119

RESULT 10
 US-09-966-880A-11
 ; Sequence 11, Application US/09966880A
 ; GENERAL INFORMATION:
 ; APPLICANT: Honjo, Tasuku
 ; APPLICANT: Muramatsu, Masamichi
 ; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 ; FILE REFERENCE: 06501-088001

CURRENT APPLICATION NUMBER: US/09/966,880A
 CURRENT FILING DATE: 2001-09-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1999-12-27
 PRIOR APPLICATION NUMBER: JP 11-178999
 PRIOR FILING DATE: 1999-06-24
 PRIOR APPLICATION NUMBER: JP 11-87192
 PRIOR FILING DATE: 1999-03-29
 NUMBER OF SEQ ID NOS: 36
 SEQ ID NO: 11
 SOFTWARE: FastSEQ for Windows Version 4.0
 LENGTH: 87
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-966-880A-11
 Query Match 0.7%; Score 14.4; DB 1; Length 87;
 Best Local Similarity 65.6%; Pred. No. 21; Matches 21; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
 QY 227 GAGGAGACAGCTGGCGGGAGGTTG 258
 DB 19 GAACTGAGATTTCTGGCCGAGACTTGCG 50
 RESULT 11
 US-09-966-880A-14
 Sequence 14, Application US/09966880A
 GENERAL INFORMATION:
 APPLICANT: Honjo, Tatsuku
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 06501-088001
 CURRENT FILING DATE: 2001-09-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1999-12-27
 PRIOR APPLICATION NUMBER: JP 11-178999
 PRIOR FILING DATE: 1999-06-24
 PRIOR APPLICATION NUMBER: JP 11-87192
 PRIOR FILING DATE: 1999-03-29
 NUMBER OF SEQ ID NOS: 36
 SEQ ID NO: 14
 SOFTWARE: FastSEQ for Windows Version 4.0
 LENGTH: 116
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-966-880A-14
 Query Match 0.6%; Score 13.8; DB 1; Length 116;
 Best Local Similarity 63.6%; Pred. No. 30; Matches 21; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
 QY 1545 AAGATATGGGAGCATGCAAGGAATTGTCT 1577
 DB 51 AAAGCTTGGGAGGCTGCAGAATTCTAGTT 83
 RESULT 12
 US-09-966-880A-11/C
 Sequence 11, Application US/09966880A
 GENERAL INFORMATION:
 APPLICANT: Honjo, Tatsuku
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 06501-088001
 CURRENT FILING DATE: 2001-09-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 1999-12-27

PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1999-12-27
 PRIOR APPLICATION NUMBER: JP 11-178999
 PRIOR FILING DATE: 1999-06-24
 PRIOR APPLICATION NUMBER: JP 11-87192
 PRIOR FILING DATE: 1999-03-29
 NUMBER OF SEQ ID NOS: 36
 SEQ ID NO: 11
 SOFTWARE: FastSEQ for Windows Version 4.0
 LENGTH: 87
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-966-880A-11
 Query Match 0.6%; Score 13.4; DB 1; Length 87;
 Best Local Similarity 52.7%; Pred. No. 23; Matches 29; Conservative 0; Mismatches 26; Indels 0; Gaps 0;
 QY 1777 TCTATGTCATAAGTTGAAAGTTAAATTGACTCTAGTATC 1831
 DB 63 TCTCTCTGCCCTCTGAGCTCAGCCAGAAATCTACTCTAATGAT 9
 RESULT 13
 US-09-966-880A-13/C
 Sequence 13, Application US/09966880A
 GENERAL INFORMATION:
 APPLICANT: Honjo, Tatsuku
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 06501-088001
 CURRENT FILING DATE: 2001-09-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1999-12-27
 PRIOR APPLICATION NUMBER: JP 11-178999
 PRIOR FILING DATE: 1999-06-24
 PRIOR APPLICATION NUMBER: JP 11-87192
 PRIOR FILING DATE: 1999-03-29
 NUMBER OF SEQ ID NOS: 36
 SOFTWARE: FastSEQ for Windows Version 4.0
 LENGTH: 271
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-966-880A-13
 Query Match 0.6%; Score 13.4; DB 1; Length 271;
 Best Local Similarity 52.7%; Pred. No. 41; Matches 29; Conservative 0; Mismatches 26; Indels 0; Gaps 0;
 QY 307 GAACCTGGGAGCTGGGGAGCTCTTAAGGTTCAACGTTCTATGACTTTAG 361
 DB 87 GAACCTGGTGAAGGCTAGGCGCCAGGCTCTAGGTCAGCCAGATGTAG 33
 RESULT 14
 US-09-966-880A-13
 Sequence 13, Application US/09966880A
 GENERAL INFORMATION:
 APPLICANT: Honjo, Tatsuku
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 06501-088001
 CURRENT FILING DATE: 2001-09-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 1999-12-27

PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
PRIOR FILING DATE: 1999-03-29
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 13
LENGTH: 271
TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-13

Query Match 0.6%; Score 12; DB 1; Length 271;
Best Local Similarity 48.5%; Preq. No. 42;
Matches 33; Conservative 0; Mismatches 35; Indels 0; Gaps 0;
Matches 33; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

Qy 522 CTCTCCATCGGCCATGATCTATAGAACCTCTATAGAGTATCTGGGTGATGTGAC 581
Db 87 CACCTCTGGACCCCTGCTAGACTGTGCCGACATGTGGCCGACTTCTGCGAGGGA 146

Qy 582 CCCAACC 589
Db 147 CCCAACC 154

Search completed: March 10, 2004, 13:40:49
Job time : 19.5479 secs